The Printer Working Group

PWG Media Standardized Names v2.1 (MSN)

Status: Approved

Abstract: This document defines standard colorant and media names and naming conventions to be used by other PWG specifications. These lists of names are a superset of the names that are defined in the Printer MIB v2 (RFC 3805) and various Internet Printing Protocol documents.

This document is a PWG Candidate Standard. For a definition of a "PWG Candidate Standard", see:

https://ftp.pwg.org/pub/pwg/general/process/pwg-process-4.pdf

This document is available electronically at:

https://ftp.pwg.org/pub/pwg/candidates/cs-pwgmsn21-20230915-5101.1.docx
https://ftp.pwg.org/pub/pwg/candidates/cs-pwgmsn21-20230915-5101.1.pdf

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44 **About the IEEE-ISTO PWG**

45 The Printer Working Group (or PWG) is a Program of the IEEE Industry Standards and
46 Technology Organization (ISTO) with member organizations including printer
47 manufacturers, print server developers, operating system providers, network operating
48 system providers, network connectivity vendors, and print management application
49 developers. The PWG is chartered to make printers and the applications and operating
50 systems supporting them work together better. All references to the PWG in this document
51 implicitly mean "The Printer Working Group, a Program of the IEEE ISTO."

52 To meet this objective, the PWG documents the results of their work as open standards that
53 define print related protocols, interfaces, procedures, and conventions. A PWG standard is
54 a stable, well understood, and technically competent specification that is widely used with
55 multiple independent and interoperable implementations. Printer manufacturers and
56 vendors of printer related software benefit from the interoperability provided by voluntary
57 conformance to these standards.

58 For additional information regarding the Printer Working Group visit:

59   https://www.pwg.org

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139 1. Introduction

140 Media names/properties for coatings, colors, sizes, sources, tooth, and types have been
141 defined in many previously published standards related to printing. Examples are the ISO
142 Document Printing Application [ISO10175], the IEEE Transport Independent Printer/System
143 Interface [IEEE1284.1], the Printer MIB v2 [RFC3805], and the Internet Printing Protocol/1.1
144 [STD92]. Although there is a high degree of commonality in the set of media
145 names/properties presented in these documents, they do not represent a uniform set. This
146 document defines a complete set of coatings, colors, sizes, sources, tooth, and types that
147 can be used as a normative reference by other standards. These definitions are also
148 registered in the IANA registry for IPP [IANA-IPP].

149 1.1 Scope

150 This document defines colorant names and media coatings, colors, sizes, tooth, and types.
151 Other numeric media properties such as weight and opacity are not included.

152 The media size dimensions that are defined in this document for sheet media are
153 independent of the media feed direction (i.e. short edge feed or long edge feed) or printing
154 orientation (i.e. portrait or landscape). Both parameters are best handled by unique
155 properties rather than overloading the media size, e.g., in IPP a "media" attribute with value
156 'na_letter_8.5x11in' and "orientation-requested" attribute with value 4 (landscape). The only
157 exception to this usage is for roll-fed media

158 Dimensions are provided in inches or millimeters to avoid conversion errors. Programs that
159 convert media dimensions to/from other units have a responsibility to ensure that errors do
160 not accumulate. For example, when converting from inches to hundredths of millimeters,
161 programs will truncate any fractional remainder, but when converting from hundredths of
162 millimeters to inches those same programs will round any remainder to the nearest
163 thousandth of an inch.

164 Media sizes typically represent cut sheets. Sizes can also represent the minimum and
165 maximum supported sheet dimensions, the inner and outer diameters of printable discs (e.g.
166 CD, DVD, etc.), the minimum and maximum supported roll dimensions, and specific roll-fed
167 media dimensions. No accommodation is made to support continuous printing applications,
168 although a client application can supply multiple "pages" of content with each page
169 representing a strip of content on a continuous printout.

170 The color property that is included in a portion of the Media Name entries in both the Printer
171 MIB and IPP are included as a separate independent set of Color Names in this
172 specification. The Color Names are defined to be used to describe marker colorants and
173 media color. The sRGB reference values for each named color are not normative but rather
174 are provided for purposes of display on a client, much as the English Localized Name (see
175 section 1.2 below) can be used on the client.

176 **1.2 Localization**

177 The intent of the names defined in this specification is for machine communication.
178 Examples include:

179   1. From a printer to client software,
180   2. From client software to a printer, and
181   3. From a printer data description file to client software.

182 This specification defines example localizations for each name in the "English Localized
183 Name" column of each table. Typically a client will localize these names to the language of
184 the user before displaying them. However, when a client encounters a name that it does not
185 recognize, the names have been structured so that they can be converted to title case form
186 (e.g. "photographic-glossy" becomes "Photographic Glossy") and displayed to the user
187 without further localization. Color names can also include sRGB reference values for display
188 as well.

189 The Media Size Self-Describing Name deserves special mention. It contains both a media
190 size name and the dimensions, in case the receiver does not recognize the media size
191 name. Such a receiver can then parse the Media Size Self-Describing Name and discover
192 the intended dimensions of such an unrecognized media. These names have also been
193 defined to facilitate parsing and/or fallback presentation of either the media size name and/or
194 the dimensions parts. Programs are encouraged to display dimensional sizes using the
195 original units to avoid confusion, however this behavior is outside the scope of this
196 specification.

197

198 **2. Terminology**

199 **2.1 Conformance Terminology**

200 Capitalized terms, such as MUST, MUST NOT, RECOMMENDED, REQUIRED, SHOULD,
201 SHOULD NOT, MAY, and OPTIONAL, have special meaning relating to conformance as
202 defined in Key words for use in RFCs to Indicate Requirement Levels [BCP14]. This
203 specification defines the following additional capitalized conformance terms:

204 *CONDITIONALLY REQUIRED*: A MUST conformance requirement that applies only when
205 a specified condition is true.

206 *DEPRECATED*: A SHOULD NOT conformance requirement for previously defined and
207 approved protocol elements that are planned to be removed from use.

208 *OBSOLETE*: A MUST NOT conformance requirement for previously defined and approved
209 protocol elements that have been removed from use.

210 **2.2 Other Terminology**

211 This specification defines the following terms:

212 *ABNF (Augmented Backus-Naur Form)*; A formal meta-syntax used to express content-free
213 grammars. ABNF is commonly used in Internet protocol specifications and is defined in the
214 Augmented BNF for Syntax Specifications [STD68].

215 *Alias*; An alternative name that is commonly used to mean the same as a name standardized
216 in this document, but which is not defined for a use that conforms to this specification.

217 *Color Name*; The standard name used to identify the color of media or marker colorant such
218 as 'white', 'red', 'ivory', 'cyan', 'magenta', 'yellow', and 'black'.

219 *Legacy Name*; A standard name used in the same contexts as the names defined in this
220 specification, but which is DEPRECATED from use when conforming to this specification.
221 This name is provided for historical context.

222 *Media*; The consumable upon which the marking engine marks so as to form a text and/or
223 pictorial image, typically paper.

224 *Media Dimensions*; The short and long dimensions of the media or the inner and outer
225 diameters of a printable disc.

226 *Media Finish*; An adjective that describes the surface texture of the medium. In most cases
227 the texture is obtained by the application of a coating such as 'glossy' and 'matte'.

228 *Media Size Name*; The standard name that identifies a particular media size such as 'a4',
229 'letter', and 'monarch'.

230 *Media Size Self-Describing Name (or Media Size for short)*; An ASCII string that contains a
231 Media Size Name and the Media Dimensions that correspond to the Media Size Name such
232 as 'iso_a4_210x297mm', 'na_letter_8.5x11in', and 'na_monarch_3.875x7.5in'.

233 *Media Source Name;* The standard name that identifies a particular input tray or roll such as
234 'tray-1', 'manual', 'large-capacity', and 'main-roll'.

235 *Media Type Name*; The standard name that identifies a particular media type, i.e., the
236 predominate characteristic of the media, such as 'stationery', 'transparency', and 'envelope'.

237 ## 2.3 Acronyms and Organizations

238 This specification defines the following acronyms and organizations:

239 *ASCII*: American Standard Code for Information Interchange

240 *ASME*: American Society of Mechanical Engineers, https://www.asme.org/

241 *DPA*: Document Printing Application

242 *IANA*: Internet Assigned Numbers Authority, https://www.iana.org/

243 *IETF*: Internet Engineering Task Force, https://www.ietf.org/

244 *IPP*: Internet Printing Protocol

245 *ISO*: International Organization for Standardization, https://www.iso.org/

246 *JTAPI*: Job Ticket Application Programming Interface,
247 https://wiki.linuxfoundation.org/openprinting/jtapi

248 *MIB*: Management Information Base

249 *PSTN*: Public Switched Telephone Network

250 *PWG*: Printer Working Group, https://www.pwg.org/

251 *RFC*: Request For Comments

252 *sRGB, sRGBA*: Standard Red Green Blue (Alpha) color space,
253 https://www.w3.org/Graphics/Color/sRGB.html
254

255 # 3. Media Type Names

256 The following subsections define standard media type names and naming conventions.

257 ## 3.1 Standard Media Type Names

258 The standard Media Type Names are defined in Table 1. The base set of these names is
259 derived from the Printer MIB v2 [RFC3805], Media Features for Display, Print, and Fax
260 [RFC2534], and IPP Job Extensions v2.0 [PWG5100.7]. Additional values MAY be
261 registered with IANA according to the Internet Printing Protocol/1.1 [STD92] IANA IPP
262 registry [IANA-IPP] .

263 Media Types that are produced using a coating or special process can only apply coating or
264 process on one side. The Media Type Names defined in this specification do not distinguish
265 between one sided and two sided conditions.

266 Standard Media Type Names conform to the following ABNF [STD68]:

267
268
```
standard-type-name = keyword
keyword = ALPHA 1*( ALPHA / DIGIT / "-" / "_" / ".")
```

269 **Table 1 - Media Type Names**

Name	English Localized Name	Description
aluminum	Aluminum	An opaque aluminum media; DEPRECATED - see "metal"
auto	Automatic	Automatically selected/detected media
back-print-film	Back Print Film	A translucent film that the user can view with or without backlighting
cardboard	Cardboard	A corrugated, opaque material
cardstock	Card Stock	A heavier or stiffer opaque material than "stationery"
cd	Compact Disc	A compact disc; DEPRECATED - see "disc"
continuous	Continuous	Continuously connected sheets of an opaque material - which edge is connected is not specified [RFC2534]
continuous-long	Continuous (Long)	Continuously connected sheets of an opaque material connected along the long edge [RFC3805]
continuous-short	Continuous (Short)	Continuously connected sheets of an opaque material connected along the short edge [RFC3805]
corrogated-board	Cardboard	A corrugated, opaque material; DEPRECATED - see "cardboard"
disc	Optical Disc	An optical disc
disc-glossy	Optical Disc (Glossy)	An optical disc with a glossy coating
disc-high-gloss	Optical Disc (High-Gloss)	An optical disc with a "high-gloss" coating
disc-matte	Optical Disc (Matte)	An optical disc with a matte coating
disc-satin	Optical Disc (Satin)	An optical disc with a satin finish coating
disc-semi-gloss	Optical Disc (Semi-Gloss)	An optical disc with a semi-gloss coating
double-wall	Cardboard (Double Wall)	A corrugated, opaque material with two layers or walls

Name	English Localized Name	Description
dvd	Digital Versatile Disc	A printable DVD; DEPRECATED - see "disc"
end-board	Cardboard (End)	A corrugated, opaque material that is closed on the ends
envelope	Envelope	Envelopes that can be used for conventional mailing purposes [RFC2534] [RFC3805]
envelope-archival	Envelope (Archival)	Envelopes made from an archival-quality material
envelope-bond	Envelope (Bond)	Envelopes made from a medium stock
envelope-coated	Envelope (Coated)	Envelopes made from a coated material
envelope-colored	Envelope (Colored)	Envelopes made from a colored material
envelope-cotton	Envelope (Cotton)	Envelopes made from a material composed in part of cotton or rag fibers
envelope-fine	Envelope (Fine)	Envelopes made from vellum or other high quality opaque material
envelope-heavyweight	Envelope (Heavyweight)	Envelopes made from a heavy stock
envelope-inkjet	Envelope (Inkjet)	Envelopes made from a material designed to minimize the spread of liquid inks. Can be accomplished using a coating
envelope-lightweight	Envelope (Lightweight)	Envelopes made from a light stock
envelope-plain	Envelope (Plain)	Envelopes that are not preprinted and have no windows [RFC2534] [RFC3805]
envelope-preprinted	Envelope (Preprinted)	Envelopes with a preprinted image
envelope-window	Envelope (Window)	Envelopes that have windows for addressing purposes [RFC3805]
fabric	Fabric	Printable fabric
fabric-archival	Fabric (Archival)	Printable fabric with archival qualities
fabric-glossy	Fabric (Glossy)	Printable fabric with a glossy coating or finish
fabric-high-gloss	Fabric (High Gloss)	Printable fabric with a high gloss coating or finish
fabric-matte	Fabric (Matte)	Printable fabric with a matte coating or finish
fabric-semi-gloss	Fabric (Semi-Gloss)	Printable fabric with a semi-gloss coating or finish
fabric-waterproof	Fabric (Waterproof)	Printable fabric that is waterproof
full-cut-tabs	Full Cut Tabs	Media with a tab that runs the full length of the sheet so that only one tab is visible extending out beyond the edge of non-tabbed media
glass	Glass	Sheets of rigid glass, typically transparent
glass-colored	Glass (Colored)	Sheets of colored rigid glass
glass-opaque	Glass (Opaque)	Sheets of opaque rigid glass
glass-surfaced	Glass (Surfaced)	Sheets of rigid glass with a semi-smooth (abraded) surface, typically translucent
glass-textured	Glass (Textured)	Sheets of rigid glass with a raised surface texture of lines, ridges, and or shapes
labels	Labels	Label stock, for example a sheet of peel-off labels
labels-colored	Labels (Colored)	Label stock with a colored (non-white) appearance
labels-glossy	Labels (Glossy)	Label stock with a glossy finish
labels-high-gloss	Labels (High Gloss)	Label stock with a "high gloss" finish
labels-inkjet	Labels (Inkjet)	Label stock designed to minimize the spread of liquid inks
labels-matte	Labels (Matte)	Label stock with a matte finish
labels-permanent	Labels (Permanent)	Label stock with a permanent adhesive
labels-satin	Labels (Satin)	Label stock with a satin finish

Name	English Localized Name	Description
labels-security	Labels (Security)	Label stock with a semi-permanent adhesive with security features
labels-semi-gloss	Labels (Semi-Gloss)	Label stock with a semi-gloss finish
letterhead	Stationery (Letterhead)	Letterhead; DEPRECATED - see "stationery-letterhead"
metal	Metal	A metallic medium
metal-glossy	Metal (Glossy)	A metallic medium with a glossy finish
metal-high-gloss	Metal (High Gloss)	A metallic medium with a "high gloss" finish
metal-matte	Metal (Matte)	A metallic medium with a matte finish
metal-satin	Metal (Satin)	A metallic medium with a satin finish
metal-semi-gloss	Metal (Semi-Gloss)	A metallic medium with a semi-gloss finish
multi-layer	Multi-Layer	Form medium composed of multiple layers which are pre-attached to one another; e.g., for use with impact printers [RFC3805]
multi-part-form	Multi-Part Form	Form medium composed of multiple layers not pre-attached to one another; each sheet can be drawn separately from an input source [RFC3805]
other	Other	Other media that does not fall into any of the specific type names; DEPRECATED
paper	Stationery	Separately cut sheets of an opaque material; DEPRECATED - see "stationery"
photographic	Photo	An opaque material to produce photographic quality images. The coating is unspecified
photographic-archival	Photo (Archival)	An archival-quality material used to reproduce photographic quality images.
photographic-film	Photo (Film)	Film used to produce photographic quality images
photographic-glossy	Photo (Glossy)	An opaque material that has a "glossy" coating to produce photographic quality images [PWG5100.3]
photographic-high-gloss	Photo (High Gloss)	An opaque material that has a "high gloss" coating to produce photographic quality images [PWG5100.3]
photographic-matte	Photo (Matte)	An opaque material that has a "matte" coating to produce photographic quality images [PWG5100.3]
photographic-satin	Photo (Satin)	An opaque material that has a "satin" coating to produce photographic quality images [PWG5100.3]
photographic-semi-gloss	Photo (Semi-Gloss)	An opaque material that has a "semi-gloss" coating to produce photographic quality images [PWG5100.3]
plastic	Plastic	An opaque printable plastic (polypropylene or similar)
plastic-archival	Plastic (Archival)	An opaque, archival-quality printable plastic
plastic-colored	Plastic (Colored)	An opaque, colored printable plastic
plastic-glossy	Plastic (Glossy)	An opaque printable plastic with a glossy coating or finish
plastic-high-gloss	Plastic (High Gloss)	An opaque printable plastic with a high gloss coating or finish
plastic-matte	Plastic (Matte)	An opaque printable plastic with a matte coating or finish
plastic-satin	Plastic (Satin)	An opaque printable plastic with a satin coating or finish

Name	English Localized Name	Description
plastic-semi-gloss	Plastic (Semi-Gloss)	An opaque printable plastic with a semi-gloss coating or finish
pre-cut-tabs	Pre-Cut Tabs	Media with tabs that are cut so that more than one tab is visible extending out beyond the edge of non-tabbed media in an Output-Document.
roll	Roll	Media provided on a roll; DEPRECATED - see any other media type name that correctly describes the type of media
screen	Screen	A refreshable display [RFC2534]
screen-paged	Screen (Paged)	A refreshable display which cannot scroll [RFC2534]
self-adhesive	Self-Adhesive Paper	Self-adhesive paper as sheets or rolls; see "labels" for pre-cut labels
self-adhesive-film	Self-Adhesive Film	Self-adhesive film as sheets or rolls
single-face	Single Face	Corrugated cardboard with a single face
single-wall	Cardboard (Single Wall)	Corrugated cardboard with a single layer or wall
sleeve	Sleeve	An opaque media used for a sleeve
stationery	Paper (Plain)	General-purpose opaque material [RFC2534] [RFC3805]
stationery-archival	Paper (Archival)	An archival-quality material used for long-lived documents
stationery-bond	Paper (Bond)	A medium stock opaque material
stationery-coated	Paper (Coated)	An opaque material with a coating of unspecified type
stationery-colored	Paper (Colored)	A colored (non-white) opaque material
stationery-cotton	Paper (Cotton)	An opaque material composed in part of cotton or rag fibers
stationery-fine	Paper (Vellum)	Vellum or other high quality opaque material
stationery-heavyweight	Paper (Heavyweight)	A heavy stock opaque material
stationery-heavyweight-coated	Paper (Heavyweight Coated)	A heavy stock opaque material with a coating of unspecified type
stationery-inkjet	Paper (Inkjet)	An opaque material designed to minimize the spread of liquid inks. Can be accomplished using a coating
stationery-letterhead	Paper (Letterhead)	An opaque material with a preprinted letterhead [PWG5100.3]
stationery-lightweight	Paper (Lightweight)	A light stock opaque material
stationery-preprinted	Paper (Preprinted)	An opaque material with a preprinted image [PWG5100.3]
stationery-prepunched	Paper (Prepunched)	An opaque material that is punched with an unspecified hole pattern
tab-stock	Tab Stock	Media with tabs (either pre-cut or full-cut) [RFC3805]
tractor	Tractor Feed	Tractor feed media
transfer	Transfer	Transfer paper, such as for T-shirt printing
transparency	Transparency	A transparent material [RFC2534] [RFC3805]
triple-wall	Cardboard (Triple Wall)	Cardboard with three layers or walls

3.2 Vendor Media Type Names

Vendor Media Type Names MAY be added without an update to this specification by prefixing the names with a reverse-DNS identifier, e.g. "org.pwg-my-type", or using

273 'smiNNN-' where NNN is an SMI Private Enterprise Number (PEN) [IANA-PEN]. The format
274 is defined by the following ABNF [STD68]:

```
275         vendor-type-name = ( dns-name / smi-name ) "-" base-name
276         base-name        = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
277         dns-name         = 1*ALPHA 1*( "." 1*( ALPHA / DIGIT / "-" ) )
278         smi-name         = "smi" 1*DIGIT
```

279 **3.3 Custom Media Type Names**

280 Media Type Names MAY be locally extended using a Custom Media Type Name without an
281 update to this specification by prefixing the names with the string "custom-", e.g. "custom-
282 xyz-letterhead". The format is defined by the following ABNF [STD68]:

```
283         custom-type-name = "custom-" base-name
284         base-name        = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
```

285 **3.4 Derived Media Type Names**
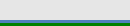
286 Media Type Names MAY be locally extended from existing standard, vendor, or custom
287 media names by prefixing the names with the string "derived-" and appending the existing
288 name with a leading underscore, e.g. "derived-xyz-photo_photographic-glossy". The format
289 is defined by the following ABNF [STD68]:
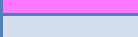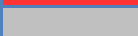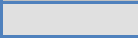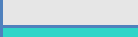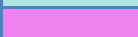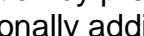
```
290         derived-type-name = "derived-" base-name "_"
291                             ( base-name / vendor-type-name /
292                              custom-type-name )
293         base-name         = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / ".")
```

294

295 **4. Color Names**

296 Table 2 defines the Media Color Names. These names are derived primarily from the Printer
297 MIB v2 [RFC3805] prtInputMediaColor and JTAPI [JTAPI] standard values. The name
298 'transparent' has been replaced by 'no-color' to allow the use of a color attribute with the
299 media type 'transparency' as defined in Table 2.

300   **Table 2 - Color Names**

Name	English Localized Name	sRGBA Value	Sample
no-color	Transparent	0xFFFFFF00	
black	Black	0x000000FF	
clear-black	Clear Black	0x0000007F	
light-black	Light Black	0x808080FF	
blue	Blue	0x0000FFFF	
clear-blue	Clear Blue	0x0000FF7F	
dark-blue	Dark Blue	0x00008BFF	
light-blue	Light Blue	0xADD8E6FF	
brown	Brown	0xA52A2AFF	
clear-brown	Clear Brown	0xA52A2A7F	
dark-brown	Dark Brown	0x5C4033FF	
light-brown	Light Brown	0x9966FFFF	
buff	Buff	0xF0DC82FF	
clear-buff	Clear Buff	0xF0DC827F	
dark-buff	Dark Buff	0x976638FF	
light-buff	Light Buff	0xECD9B0FF	
cyan	Cyan	0x00FFFFFF	
clear-cyan	Clear Cyan	0x00FFFF7F	
dark-cyan	Dark Cyan	0x008B8BFF	
light-cyan	Light Cyan	0xE0FFFFFF	
gold	Gold	0xFFD700FF	
clear-gold	Clear Gold	0xFFD7007F	
dark-gold	Dark Gold	0xEEBC1DFF	
light-gold	Light Gold	0xF1E5ACFF	
goldenrod	Goldenrod	0xDAA520FF	
clear-goldenrod	Clear Goldenrod	0xDAA5207F	
dark-goldenrod	Dark Goldenrod	0xB8860BFF	
light-goldenrod	Light Goldenrod	0xFFEC8BFF	
gray	Gray	0x808080FF	
clear-gray	Clear Gray	0x8080807F	
dark-gray	Dark Gray	0x404040FF	
light-gray	Light Gray	0xD3D3D3FF	
green	Green	0x008000FF	
clear-green	Clear Green	0x0080007F	
dark-green	Dark Green	0x006400FF	
light-green	Light Green	0x90EE90FF	
ivory	Ivory	0xFFFFF0FF	
clear-ivory	Clear Ivory	0xFFFFF07F	
dark-ivory	Dark Ivory	0xF2E58FFF	

Name	English Localized Name	sRGBA Value	Sample
light-ivory	Light Ivory	0xFFF8C9FF	
magenta	Magenta	0xFF00FFFF	
clear-magenta	Clear Magenta	0xFF00FF7F	
dark-magenta	Dark Magenta	0x8B008BFF	
light-magenta	Light Magenta	0xFF77FFFF	
multi-color	Multi-Color	Undefined	
clear-multi-color	Clear Multi-Color	Undefined	
mustard	Mustard	0xFFDB58FF	
clear-mustard	Clear Mustard	0xFFDB587F	
dark-mustard	Dark Mustard	0x7C7C40FF	
light-mustard	Light Mustard	0xEEDD62FF	
orange	Orange	0xFFA500FF	
clear-orange	Clear Orange	0xFFA5007F	
dark-orange	Dark Orange	0xFF8C00FF	
light-orange	Light Orange	0xD9A465FF	
pink	Pink	0xFFC0CBFF	
clear-pink	Clear Pink	0xFFC0CB7F	
dark-pink	Dark Pink	0xE75480FF	
light-pink	Light Pink	0xFFB6C1FF	
red	Red	0xFF0000FF	
clear-red	Clear Red	0xFF00007F	
dark-red	Dark Red	0x8B0000FF	
light-red	Light Red	0xFF3333FF	
silver	Silver	0xC0C0C0FF	
clear-silver	Clear Silver	0xC0C0C07F	
dark-silver	Dark Silver	0xAFAFAFFF	
light-silver	Light Silver	0xE1E1E1FF	
turquoise	Turquoise	0x30D5C8FF	
clear-turquoise	Clear Turquoise	0x30D5C87F	
dark-turquoise	Dark Turquoise	0x00CED1FF	
light-turquoise	Light Turquoise	0xAFE4DEFF	
violet	Violet	0xEE82EEFF	
clear-violet	Clear Violet	0xEE82EE7F	
dark-violet	Dark Violet	0x9400D3FF	
light-violet	Light Violet	0x7A5299FF	
white	White	0xFFFFFFFF	
clear-white	Clear White	0xFFFFFF7F	
yellow	Yellow	0xFFFF00FF	
clear-yellow	Clear Yellow	0xFFFF007F	
dark-yellow	Dark Yellow	0xFFCC00FF	
light-yellow	Light Yellow	0xFFFFE0FF	

301 4.1 Vendor Color Names

302 Vendor Color Names MAY be added without an update to this specification by prefixing the
303 names with a reverse-DNS identifier or SMI enterprise number and optionally adding one
304 or more sRGBA colors on the end, e.g. "org.pwg-my-color_ff0000ff". The format is defined
305 by the following ABNF [STD68]:

```
306        vendor-color-name = ( dns-name / smi-name ) "-" base-name
307                            *( "_" red-color green-color blue-color
308                              [ alpha-color ] )
309        base-name          = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
310        dns-name           = 1*ALPHA 1*( "." 1*( ALPHA / DIGIT / "-" ) )
311        smi-name           = "smi" 1*DIGIT
312        red-color          = 2HEXDIG
313        green-color        = 2HEXDIG
314        blue-color         = 2HEXDIG
315        alpha-color        = 2HEXDIG
```

316 **4.2 Custom Color Names**

317 Media Color Names MAY be locally extended using a Custom Media Color Name without
318 an update to this specification by prefixing the color name with the string "custom-" and
319 optionally adding one or more sRGBA colors to the end, e.g. "custom-mauve_b996ae". The
320 format is defined by the following ABNF:

```
321        custom-color-name = "custom-" base-name
322                            *( "_" red-color green-color blue-color
323                              [ alpha-color ] )
324        base-name          = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
325        red-color          = 2HEXDIG
326        green-color        = 2HEXDIG
327        blue-color         = 2HEXDIG
328        alpha-color        = 2HEXDIG
```

329

330 **5. Media Size Self-Describing Names**

331 The media size specifications defined in this document, labeled as Media Size Self-
332 Describing Names, are cross indexed to Legacy Names and Alias (common) names. The
333 Legacy Names define the names currently used in the ISO Document Printing Application
334 [ISO10175], Printer MIB v2 [RFC3805], or Internet Printing Protocol/1.1 [STD92] documents.

335 Media size names defined in this specification and registered in the IANA IPP registry [IANA-
336 IPP] have unique dimensions - no two self-describing media size names can have
337 dimensions matching within 1mm or 0.01in. Sizes MUST be defined using the original units
338 of measure (inches or millimeters) to avoid conversion errors or accidental duplication.

339 **5.1 Media Size Self-Describing Name Format**

340 This specification defines a Media Size Self-Describing Name format that is recommended
341 to be used by all new implementations. Names conforming to this format do not contain any
342 space characters (0x20) - only letters, numbers, period ("."), hyphen ("-"), and underscore
343 ("_") are allowed.

344 Wherever possible, the Media Size Self-Describing Name has been derived from the Legacy
345 Name. In many cases the 'class_size-name' portion is identical to the Legacy Name. In the
346 remaining cases, the 'class' portion MUST be ignored to match the Legacy Name.

347 This format has the Media Size Name and the Media Dimensions embedded within the string
348 and allows a device to operate without a Media Size Name to Media Dimensions localization
349 table. A long-dim value of 0 is used for reporting the width of roll-fed media (section 5.1.3).
350 The Media Size Self-Describing Name format is structured using the following ABNF
351 [STD68]:

```
352          media-size-self-describing-name =
353                      media-size-name / "choice" 2*( "_" media-size-name )
354          media-size-name = class-in "_" size-name "_" width-dim "x" length-dim "in" /
355                            class-mm "_" size-name "_" width-dim "x" length-dim "mm" /
356                            "disc_" size-name "_" inner-dim "x" outer-dim "mm"
357          class-in       = "custom" / "na" / "asme" / "roc" / "oe" / "roll"
358          class-mm       = "custom" / "iso" / "jis" / "jpn" / "prc" / "om" / "roll"
359          size-name      = base-name
360          base-name      = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
361          width-dim      = dim
362          length-dim     = dim / "0"
363          inner-dim      = dim
364          outer-dim      = dim
365          dim            = integer-part [fraction-part] / "0" fraction-part
366          integer-part   = non-zero-digit *digit
367          fraction-part  = "." *digit non-zero-digit
368          non-zero-digit = %x31-39
```

369 Note: The online PWG Media Names ABNF [MSN-ABNF] is the most up-to-date reference
370 for use with this specification.

371 **5.1.1 class-in, class-mm, "choice", and "disc"**

372 This string part is present to indicate the name space or jurisdiction for the size name to
373 prevent name clashes. Currently defined classes are:

374   'asme'; American Society of Mechanical Engineers sizes in inches,

375   'choice'; Lists two or more self-describing media names that can be used in
376   alphabetical order,

377   'custom'; Site-unique and user-defined sizes in inches or millimeters as defined in
378   section,

379   'disc'; Printable optical disc media, sizes are inner and outer printable diameters in
380   millimeters,

381   'iso'; International Standards Organization sizes in millimeters,

382   'jis'; Japanese Information Standard sizes in millimeters,

383   'jpn'; Japan sizes in millimeters,

384   'na'; North America sizes in inches,

385   'oe'; Other vendor-defined (English) sizes in inches,

386   'om'; Other vendor-defined (metric) sizes in millimeters,

387   'prc'; People's Republic of China sizes in millimeters,

388   'roc'; Republic of China (Taiwan) sizes in inches, and

389   'roll'; Roll media sizes in inches or millimeters.

390 New class names MUST conform to the following ABNF:

391   `class-name = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "." )`

392 **5.1.2 size-name**

393 This string provides a textual description of the media size. It is normally derived from the
394 Legacy or Alias name associated with the media size. The size-name can consist of multiple
395 parts, with each part separated by a hyphen (0x2D).

396 **5.1.3 width-dim and length-dim**

397 These values define the media size. For sheet fed media, the width-dim is always the smaller
398 of the two dimensions. The dimensions are presented in decimal format to as many places
399 as necessary to define the size. Trailing zeros MUST NOT be used if a decimal portion is

400 present. Leading zeros MUST NOT ever be used. When expressing a supported or ready
401 media width for roll fed media where the minimum and maximum lengths are unbounded or
402 unknown, the length-dim MUST be 0.

403 Examples:

```
404        123         (valid)
405        123.456     (valid)
406        123.        (invalid, trailing decimal with no digits)
407        123.4560    (invalid, trailing zero)
408        0123.456    (invalid, leading zero)
```

409 **5.1.4 inner-dim and outer-dim**

410 These values define the inner and outer diameters of the printable area on an optical disc.
411 The dimensions are presented in decimal format to as many places as necessary to define
412 the size. Trailing zeros MUST NOT be used if a decimal portion is present. See section 5.1.3
413 for examples.

414 **5.1.5 Conversion**

415 For interchange between programs, the dimensions presented in this specification MUST
416 NOT be converted to another system of units but MUST remain as defined in this
417 specification.

418 The common usage of some names can represent several physical sizes, e.g., folio, quarto,
419 foolscap, and executive. To avoid naming and sizing conflicts, a hyphenated identifier MUST
420 be used to link the names to a specific size.

421 **5.1.6 Examples**

422 The letter size (8.5 inches by 11 inches) used primarily in North America:

423   na_letter_8.5x11in

424 The ISO A4 size (210 mm by 297 mm) used world-wide:

425   iso_a4_210x297mm

426 **5.1.7 Custom and Roll Fed Media Size Self-Describing Names**

427 The classes "custom" and "roll" allow extensibility of the media size set without an update to
428 this specification or registration with IANA. These classes are primarily intended for special
429 or user-defined media sizes that are used at a minimum number of locations. Size names
430 that use the "custom" or "roll" prefix MUST NOT be registered with IANA.

431 **5.1.8 Reserved Size Names**

432 The following size names are reserved:

433   'current'; indicates the currently loaded media,

434   'current.*source-name*'; indicated the currently loaded media for the given media
435   source,

436   'max'; Indicates the upper size limit of either a device or application,

437   'max.*source-name*'; indicates the upper size limit for the given media source,

438   'min'; indicates a lower size limit, and

439   'min.*source-name*'; indicates the lower size limit for the specified media source.

440   For example, a device that can process forms from 2 x 3 inches to 18 x 36 inches would
441   report:

```
442            custom_max_18x36in
443            custom_min_2x3in
```

444   A device with two roll sources, "roll-1" and "roll-2", that accept rolls up to 60 inches in width
445   and 1800 inches (150 feet) in length with a 36 inch roll installed with 240 inches (20 feet)
446   remaining would report:

```
447            roll_current.roll-1_36x240in
448            roll_max_60x1800in
449            roll_min_2x3in
```
450

451   **5.1.9 Standard Media Sizes**

452   The rest of this section contains the tables of Media Size Self-Describing Names. Within a
453   table, entries from different sources are grouped together. The entries in these groups are
454   arranged in order of increasing size of the smaller dimension and then the larger dimension.
455   The "English Localized Name" column provides the suggested English language equivalent
456   to show in a user interface.

457   Engineering sizes are defined in Decimal Inch Drawing Sheet Size and Format [ASME-IN]
458   and Metric Drawing Sheet Size and Format [ASME-M].

459   The presence of "(envelope)" in the Alias column indicates this size is also commonly used
460   for envelopes. It does not imply that this size is only available as an envelope media type.

461   **Table 3 - North American Sheet Media Sizes**

Legacy Name	Alias (Common Name)	Self-Describing Name	English Localized Name
	index-3x5	na_index-3x5_3x5in	3 x 5"
	personal (envelope)	na_personal_3.625x6.5in	Personal Envelope
monarch-envelope		na_monarch_3.875x7.5in	Monarch Envelope
na-number-9-envelope		na_number-9_3.875x8.875in	#9 Envelope
	index-4x6 (postcard)	na_index-4x6_4x6in	4 x 6"
na-number-10-envelope	comm-10 (envelope)	na_number-10_4.125x9.5in	#10 Envelope
	a2 (envelope)	na_a2_4.375x5.75in	A2 Envelope
	number-11 (envelope)	na_number-11_4.5x10.375in	#11 Envelope
	number-12 (envelope)	na_number-12_4.75x11in	#12 Envelope
	5x7	na_5x7_5x7in	5 x 7"
	index-5x8	na_index-5x8_5x8in	5 x 8"
	number-14 (envelope)	na_number-14_5x11.5in	#14 Envelope
invoice	statement, mini, half-letter	na_invoice_5.5x8.5in	Statement
	index-4x6-ext	na_index-4x6-ext_6x8in	6 x 8"
na-6x9-envelope	6x9 (envelope)	na_6x9_6x9in	6 x 9"
	c5 (envelope)	na_c5_6.5x9.5in	C5 Envelope
na-7x9-envelope	7x9 (envelope)	na_7x9_7x9in	7 x 9"
executive		na_executive_7.25x10.5in	US Executive
na-8x10	government-letter	na_govt-letter_8x10in	8 x 10"
	government-legal	na_govt-legal_8x13in	8 x 13"
quarto		na_quarto_8.5x10.83in	Quarto
na-letter	letter, a, engineering-a	na_letter_8.5x11in	US Letter
	fanfold-european	na_fanfold-eur_8.5x12in	European Fanfold
	letter-plus	na_letter-plus_8.5x12.69in	US Letter (Plus)

Legacy Name	Alias (Common Name)	Self-Describing Name	English Localized Name
	foolscap, german-legal-fanfold	na_foolscap_8.5x13in	Foolscap
	oficio	na_oficio_8.5x13.4in	Oficio (Mexico)
na-legal	legal	na_legal_8.5x14in	US Legal
	super-a	na_super-a_8.94x14in	8.94 x 14"
na-9x11-envelope	9x11 (envelope), letter-tab	na_9x11_9x11in	9 x 11"
arch-a	architecture-a (envelope)	na_arch-a_9x12in	9 x 12"
	letter-extra	na_letter-extra_9.5x12in	US Letter (Extra)
	legal-extra	na_legal-extra_9.5x15in	US Legal (Extra)
	10x11	na_10x11_10x11in	10 x 11"
na-10x13-envelope	10x13 (envelope)	na_10x13_10x13in	10 x 13" Envelope
na-10x14-envelope	10x14 (envelope)	na_10x14_10x14in	10 x 14" Envelope
na-10x15-envelope	10x15 (envelope)	na_10x15_10x15in	10 x 15" Envelope
	11x12	na_11x12_11x12in	11 x 12"
	edp	na_edp_11x14in	11 x 14"
	fanfold-us	na_fanfold-us_11x14.875in	US Fanfold
	11x15	na_11x15_11x15in	11 x 15"
tabloid	ledger, b, engineering-b	na_ledger_11x17in	11 x 17"
	european-edp	na_eur-edp_12x14in	12 x 14"
arch-b	architecture-b, tabloid-extra	na_arch-b_12x18in	12 x 18"
	12x19	na_12x19_12x19in	12 x 19"
	b-plus	na_b-plus_12x19.17in	12 x 19 1/6"
	super-b	na_super-b_13x19in	13 x 19"
c	engineering-c	na_c_17x22in	17 x 22"
arch-c	architecture-c	na_arch-c_18x24in	18 x 24"
d	engineering-d	na_d_22x34in	22 x 34"
arch-d	architecture-d	na_arch-d_24x36in	24 x 36"
		na_arch-e2_26x38in	26 x 38"
		na_arch-e3_27x39in	27 x 39"
f	e1	asme_f_28x40in	28 x 40"
	wide-format	na_wide-format_30x42in	30 x 42"
e	engineering-e	na_e_34x44in	34 x 44"
arch-e	architecture-e	na_arch-e_36x48in	36 x 48"
	f, engineering-f	na_f_44x68in	44 x 68"

462

463

464   **Table 4 - Other English Sheet Media Sizes**

Legacy Name	Alias (Common Name)	Self-Describing Name	English Localized Name
		oe_business-card_2x3.5in	Business Card
	photo-l	oe_photo-l_3.5x5in	3.5 x 5" Photo
	4x4	oe_square-photo_4x4in	4 x 4" Photo
	5x5	oe_square-photo_5x5in	5 x 5" Photo
	photo-s8r	oe_photo-s8r_8x12in	8 x 12" Photo
	photo-10r	oe_photo-10r_10x12in	10 x 12" Photo
	photo-s10r	oe_photo-s10r_10x15in	10 x 15" Photo
	photo-12r	oe_photo-12r-12x15in	12 x 15" Photo
	12x16	oe_12x16_12x16in	12 x 16"
	14x17	oe_14x17_14x17in	14 x 17"
	14x18	oe_photo-14x18_14x18in	14 x 18" Photo
	photo-16r	oe_photo-16r_16x20in	16 x 20" Photo
	a2-plus	oe_a2plus_17x24in	17 x 24"
	18x22	oe_18x22_18x22in	18 x 22"
	photo-20r	oe_photo-20r_20x24in	20 x 24" Photo
	22x28	oe_photo-22x28_22x28in	22 x 28" Photo
	photo-22r	oe_photo-22r_22x29.5in	22 x 29.5" Photo
	24x30	oe_photo-24x30_24x30in	24 x 30" Photo
	photo-24r	oe_photo-24r_24x31.5in	24 x 31.5" Photo
	photo-30r	oe_photo-30r_30x40in	30 x 40" Photo

465   **Table 5 - ISO Sheet Media Sizes**

Legacy Name	Alias (Common Name)	Self-Describing Name	English Localized Name
iso-a10	a10	iso_a10_26x37mm	A10
	c10 (envelope)	iso_c10_28x40mm	C10 Envelope
iso-b10	b10	iso_b10_31x44mm	B10
iso-a9	a9	iso_a9_37x52mm	A9
	c9 (envelope)	iso_c9_40x57mm	C9 Envelope
iso-b9	b9	iso_b9_44x62mm	B9
iso-a8	a8	iso_a8_52x74mm	A8
		iso_id-1_53.98x85.6mm	ID Card
iso-c8	c8 (envelope)	iso_c8_57x81mm	C8 Envelope
iso-b8	b8	iso_b8_62x88mm	B8
iso-a7	a7	iso_a7_74x105mm	A7
iso-c7	c7 (envelope)	iso_c7_81x114mm	C7 Envelope
	c7/c6 (envelope)	iso_c7c6_81x162mm	C7/C6 Envelope
iso-b7	b7	iso_b7_88x125mm	B7
iso-a6	a6	iso_a6_105x148mm	A6
iso-designated	designated-long, dl (envelope)	iso_dl_110x220mm	DL Envelope
iso-c6	c6 (envelope)	iso_c6_114x162mm	C6 Envelope
	c6/c5 (envelope)	iso_c6c5_114x229mm	C6/C5 Envelope
iso-b6	b6 (envelope)	iso_b6_125x176mm	B6 Envelope
	b6/c4 (envelope)	iso_b6c4_125x324mm	B6/C4 Envelope
iso-a5	a5	iso_a5_148x210mm	A5
iso-c5	c5 (envelope)	iso_c5_162x229mm	C5 Envelope
	a5-extra	iso_a5-extra_174x235mm	A5 (Extra)
iso-b5	b5 (envelope)	iso_b5_176x250mm	B5 Envelope
	b5-extra	iso_b5-extra_201x276mm	B5 (Extra)
iso-a4	a4	iso_a4_210x297mm	A4

Legacy Name	Alias (Common Name)	Self-Describing Name	English Localized Name
iso-ra4		iso_ra4_215x305mm	RA4
	a4-tab	iso_a4-tab_225x297mm	A4 (Tab)
iso-sra4		iso_sra4_225x320mm	SRA4
iso-c4	c4 (envelope)	iso_c4_229x324mm	C4 Envelope
	a4-extra	iso_a4-extra_235.5x322.3mm	A4 (Extra)
iso-b4	b4 (envelope)	iso_b4_250x353mm	B4 Envelope
iso-a3	a3	iso_a3_297x420mm	A3
iso-a4x3, a4x3		iso_a4x3_297x630mm	A4x3
iso-a4x4, a4x4		iso_a4x4_297x841mm	A4x4
iso-a4x5, a4x5		iso_a4x5_297x1051mm	A4x5
iso-a4x6, a4x6		iso_a4x6_297x1261mm	A4x6
iso-a4x7, a4x7		iso_a4x7_297x1471mm	A4x7
iso-a4x8, a4x8		iso_a4x8_297x1682mm	A4x8
iso-a4x9, a4x9		iso_a4x9_297x1892mm	A4x9
iso-ra3		iso_ra3_305x430mm	RA3
iso-sra3		iso_sra3_320x450mm	SRA3
iso-a3-extra		iso_a3-extra_322x445mm	A3 (Extra)
iso-c3	c3 (envelope)	iso_c3_324x458mm	C3 Envelope
iso-b3	b3	iso_b3_353x500mm	B3
iso-a2	a2	iso_a2_420x594mm	A2
iso-a3x3, a3x3		iso_a3x3_420x891mm	A3x3
iso-a3x4, a3x4		iso_a3x4_420x1189mm	A3x4
iso-a3x5, a3x5		iso_a3x5_420x1486mm	A3x5
iso-a3x6, a3x6		iso_a3x6_420x1783mm	A3x6
iso-a3x7, a3x7		iso_a3x7_420x2080mm	A3x7
iso-ra2		iso_ra2_430x610mm	RA2
iso-sra2		iso_sra2_450x640mm	SRA2
iso-c2	c2 (envelope)	iso_c2_458x648mm	C2 Envelope
iso-b2	b2	iso_b2_500x707mm	B2
iso-a1	a1	iso_a1_594x841mm	A1
iso-a2x3, a2x3		iso_a2x3_594x1261mm	A2x3
iso-a2x4, a2x4		iso_a2x4_594x1682mm	A2x4
iso-a2x5, a2x5		iso_a2x5_594x2102mm	A2x5
iso-ra1		iso_ra1_610x860mm	RA1
iso-sra1		iso_sra1_640x900mm	SRA1
iso-c1	c1 (envelope)	iso_c1_648x917mm	C1 Envelope
iso-b1	b1	iso_b1_707x1000mm	B1
iso-a0	a0	iso_a0_841x1189mm	A0
iso-a1x3, a1x3		iso_a1x3_841x1783mm	A1x3
iso-a1x4, a1x4		iso_a1x4_841x2378mm	A1x4
iso-ra0		iso_ra0_860x1220mm	RA0
iso-sra0		iso_sra0_900x1280mm	SRA0
iso-c0	c0 (envelope)	iso_c0_917x1297mm	C0 Envelope
iso-b0	b0	iso_b0_1000x1414mm	B0
a0x2	2a0	iso_2a0_1189x1682mm	A0x2
a0x3		iso_a0x3_1189x2523mm	A0x3

466

467

468   **Table 6 - Other Metric Sheet Media Sizes**

Legacy Name	Alias (Common Name)	Self-Describing Name	English Localized Name
		om_business-card_55x85mm	55 x 85mm Card
		om_business-card_55x91mm	55 x 91mm Card
		om_square-photo_89x89mm	89 x 89mm Photo
		om_dsc-photo_89x119mm	89 x 119mm Photo
	small-photo	om_small-photo_100x150mm	10 x 15cm Photo
		om_wide-photo_100x200mm	10 x 20cm Photo
	Italian (envelope)	om_italian_110x230mm	Italian Envelope
	Postfix (envelope)	om_postfix_114x229mm	Postfix Envelope
	medium-photo	om_medium-photo_130x180mm	13 x 18cm Photo
		om_16k_184x260mm	184 x 260mm
		om_16k_195x270mm	195 x 270mm
	large-photo	om_large-photo_200x300mm	200 x 300mm Photo
folio		om_folio_210x330mm	Folio
	folio-sp	om_folio-sp_215x315mm	Folio (Special)
	Invite (envelope)	om_invite_220x220mm	Invitation Envelope
		om_photo-30x40_300x400mm	30 x 40cm Photo
		om_photo-30x45_300x450mm	30 x 45cm Photo
		om_photo-35x46_350x460mm	35 x 46cm Photo
		om_photo-40x60_400x600mm	40 x 60cm Photo
		om_photo-50x75_500x750mm	50 x 75cm Photo
		om_photo-50x76_500x760mm	50 x 76cm Photo
		om_photo-60x90_600x900mm	60 x 90cm Photo

469

470

471   **Table 7 - Japanese Sheet Media Sizes**

Legacy Name	Alias (Common Name)	Self-Describing Name	English Localized Name
jis-b10		jis_b10_32x45mm	JIS B10
jis-b9		jis_b9_45x64mm	JIS B9
jis-b8		jis_b8_64x91mm	JIS B8
	chou4 (envelope)	jpn_chou4_90x205mm	Chou 4 Envelope
		jpn_chou40_90x225mm	Chou 40 Envelope
jis-b7		jis_b7_91x128mm	JIS B7
	you6 (envelope)	jpn_you6_98x190mm	You 6 Envelope
	hagaki (postcard)	jpn_hagaki_100x148mm	Hagaki
	you4 (envelope)	jpn_you4_105x235mm	You 4 Envelope
	chou2 (envelope)	jpn_chou2_111.1x146mm	Chou 2 Envelope
		jpn_kaku8_119x197mm	Kakugata 8 Envelope
	chou3 (envelope)	jpn_chou3_120x235mm	Chou 3 Envelope
jis-b6		jis_b6_128x182mm	JIS B6
		jpn_kaku7_142x205mm	Kakugata 7 Envelope
	oufuku (reply postcard)	jpn_oufuku_148x200mm	Oufuku Reply Postcard
jis-b5		jis_b5_182x257mm	JIS B5
		jpn_kaku5_190x240mm	Kakugata 5 Envelope
		jpn_kaku4_197x267mm	Kakugata 4 Envelope
		jpn_kaku3_216x277mm	Kakugata 3 Envelope
	exec	jis_exec_216x330mm	JIS Executive
	kahu (envelope)	jpn_kahu_240x322.1mm	Kahu Envelope
	kaku2 (envelope)	jpn_kaku2_240x332mm	Kakugata 2 Envelope
jis-b4		jis_b4_257x364mm	JIS B4
		jpn_kaku1_270x382mm	Kakugata 1 Envelope
jis-b3		jis_b3_364x515mm	JIS B3
jis-b2		jis_b2_515x728mm	JIS B2
jis-b1		jis_b1_728x1030mm	JIS B1
jis-b0		jis_b0_1030x1456mm	JIS B0

472   **Table 8 - Chinese Sheet Media Sizes**

Legacy Name	Alias (Common Name)	Self-Describing Name	English Localized Name
	prc-32k	prc_32k_97x151mm	Chinese 32k
	prc1 (envelope)	prc_1_102x165mm	Chinese #1 Envelope
	prc2 (envelope)	prc_2_102x176mm	Chinese #2 Envelope
	prc4 (envelope)	prc_4_110x208mm	Chinese #4 Envelope
	prc8 (envelope)	prc_8_120x309mm	Chinese #8 Envelope
	prc6 (envelope)	prc_6_120x320mm	Chinese #6 Envelope
	prc3 (envelope)	prc_3_125x176mm	Chinese #3 Envelope
	prc-16k	prc_16k_146x215mm	Chinese 16k
	prc7 (envelope)	prc_7_160x230mm	Chinese #7 Envelope
	juuro-ku-kai	om_juuro-ku-kai_198x275mm	Chinese 4k (Large)
	pa-kai	om_pa-kai_267x389mm	Chinese 8k (Large)
	dai-pa-kai	om_dai-pa-kai_275x395mm	Chinese 16k (Large)
	prc10 (envelope)	prc_10_324x458mm	Chinese #10 Envelope
	roc-16k	roc_16k_7.75x10.75in	ROC 16k
	roc-8k	roc_8k_10.75x15.5in	ROC 8k

473

474 **6. Media Coating Names**

475 Standard "media-back-coating" and "media-front-coating" keywords [PWG5100.7] are
476 defined in the IANA IPP Registry [IANA-IPP]. Localizations are provided in Table 9.

477 **Table 9 - Media Coating Names**

Name	English Localized Name
glossy	Glossy
high-gloss	High Gloss
matte	Matte
none	None
satin	Satin
semi-gloss	Semi-Gloss

478 **6.1 Vendor Media Coating Names**

479 Vendor Media Coating Names MAY be added without an update to this specification by
480 prefixing the names with a reverse-DNS identifier, e.g. "org.pwg-my-coating", or using
481 'smiNNN-' where NNN is an SMI Private Enterprise Number (PEN) [IANA-PEN]. The format
482 is defined by the following ABNF [STD68]:

```
483    vendor-coating-name = ( dns-name / smi-name ) "-" base-name
484    base-name           = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
485    dns-name            = 1*ALPHA 1*( "." 1*( ALPHA / DIGIT / "-" ) )
486    smi-name            = "smi" 1*DIGIT
```

487 **6.2 Custom Media Coating Names**

488 Media Coating Names MAY be locally extended using a Custom Media Coating Name
489 without an update to this specification by prefixing the names with the string "custom-", e.g.
490 "custom-xyz-coating". The format is defined by the following ABNF [STD68]:

```
491    custom-coating-name = "custom-" base-name
492    base-name           = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
```

493

494

495 **7. Media Source Names**

496 Standard "media-source" keywords [PWG5100.7] are defined in the IANA IPP Registry
497 [IANA-IPP]. Localizations are provided in Table 10.

498 **Table 10 - Media Source Names**

Name	English Localized Name
alternate	Alternate Tray
alternate-roll	Alternate Roll
auto	Automatic
bottom	Bottom Tray
by-pass-tray	Multipurpose Tray
center	Center Tray
disc	CD/DVD Feed
envelope	Envelope Feed
hagaki	Hagaki Tray
large-capacity	Large Capacity Tray
left	Left Tray
main	Main Tray
main-roll	Main Roll
manual	Manual Feed
middle	Middle Tray
photo	Photo Tray
rear	Rear Feed
roll-1	Roll 1
roll-2	Roll 2
roll-3	Roll 3
roll-4	Roll 4
roll-5	Roll 5
roll-6	Roll 6
roll-7	Roll 7
roll-8	Roll 8
roll-9	Roll 9
roll-10	Roll 10
side	Side Tray
top	Top Tray
tray-1	Tray 1
tray-2	Tray 2
tray-3	Tray 3
tray-4	Tray 4
tray-5	Tray 5
tray-6	Tray 6
tray-7	Tray 7
tray-8	Tray 8
tray-9	Tray 9
tray-10	Tray 10
tray-11	Tray 11
tray-12	Tray 12
tray-13	Tray 13
tray-14	Tray 14
tray-15	Tray 15
tray-16	Tray 16
tray-17	Tray 17
tray-18	Tray 18

Name	English Localized Name
tray-19	Tray 19
tray-20	Tray 20

499 7.1 Vendor Media Source Names

500 Vendor Media Source Names MAY be added without an update to this specification by
501 prefixing the names with a reverse-DNS identifier, e.g. "org.pwg-my-source", or using
502 'smiNNN-' where NNN is an SMI Private Enterprise Number (PEN) [IANA-PEN]. The format
503 is defined by the following ABNF [STD68]:

```
504      vendor-source-name = ( dns-name / smi-name ) "-" base-name
505      base-name          = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
506      dns-name           = 1*ALPHA 1*( "." 1*( ALPHA / DIGIT / "-" ) )
507      smi-name           = "smi" 1*DIGIT
```

508 7.2 Custom Media Source Names

509 Media Source Names MAY be locally extended using a Custom Media Source Name without
510 an update to this specification by prefixing the names with the string "custom-", e.g. "custom-
511 xyz-source". The format is defined by the following ABNF [STD68]:

```
512      custom-source-name = "custom-" base-name
513      base-name          = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
```

514 **8. Media Tooth Names**

515 Standard "media-tooth" keywords [PWG5100.7] are defined in the IANA IPP Registry [IANA-
516 IPP]. Localizations are provided in Table 11.

517 **Table 11 - Media Tooth Names**

Name	English Localized Name
antique	Antique
calendared	Calendared
coarse	Coarse
fine	Fine
linen	Linen
medium	Medium
smooth	Smooth
stipple	Stipple
uncalendared	Uncalendared
vellum	Vellum

518 **8.1 Vendor Media Tooth Names**

519 Vendor Media Tooth Names MAY be added without an update to this specification by
520 prefixing the names with a reverse-DNS identifier, e.g. "org.pwg-my-tooth", or using
521 'smiNNN-' where NNN is an SMI Private Enterprise Number (PEN) [IANA-PEN]. The format
522 is defined by the following ABNF [STD68]:

```
523        vendor-tooth-name = ( dns-name / smi-name ) "-" base-name
524        base-name         = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
525        dns-name          = 1*ALPHA 1*( "." 1*( ALPHA / DIGIT / "-" ) )
526        smi-name          = "smi" 1*DIGIT
```

527 **8.2 Custom Media Tooth Names**

528 Media Tooth Names MAY be locally extended using a Custom Media Tooth Name without
529 an update to this specification by prefixing the names with the string "custom-", e.g. "custom-
530 xyz-tooth". The format is defined by the following ABNF [STD68]:

```
531        custom-tooth-name = "custom-" base-name
532        base-name         = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
```

533

534 **9. Conformance Requirements**

535 Implementations conforming to this specification MUST:

536   1. Support media type names as defined in section 3,
537   2. Support color names as defined in section 4,
538   3. Support size names as defined in section 5,
539   4. Support coating names as defined in section 6,
540   5. Support source names as defined in section 7,
541   6. Support tooth names as defined in section 8,
542   7. Support the internationalization considerations defined in section 10, and
543   8. Support the security and privacy considerations defined in section 11.

544 Media Names defined in this specification are presented using lowercase characters. Other
545 referencing standards can impose case sensitive rules if necessary. For interoperability and
546 implementation efficiency, this specification strongly recommends these names be used in
547 the lowercase form defined in this document.

548 **10. Internationalization Considerations**

549 For interoperability and basic support for multiple languages, conforming implementations
550 MUST support:

551   1. The Universal Character Set (UCS) Transformation Format -- 8 bit (UTF-8)
552   [STD63] encoding of Unicode [UNICODE] [ISO10646]; and
553   2. The Unicode Format for Network Interchange [RFC5198] which requires
554   transmission of well-formed UTF-8 strings and recommends transmission of
555   normalized UTF-8 strings in Normalization Form C (NFC) [UAX15].

556 Unicode NFC is defined as the result of performing Canonical Decomposition (into base
557 characters and combining marks) followed by Canonical Composition (into canonical
558 composed characters wherever Unicode has assigned them).

559 WARNING – Performing normalization on UTF-8 strings received from Clients and
560 subsequently storing the results (e.g., in Job objects) could cause false negatives in Client
561 searches and failed access (e.g., to Printers with percent-encoded UTF-8 URIs now
562 'hidden').

563 Implementations of this specification SHOULD conform to the following standards on
564 processing of human-readable Unicode text strings, see:

565   Unicode Bidirectional Algorithm [UAX9] – left-to-right, right-to-left, and vertical

566   Unicode Line Breaking Algorithm [UAX14] – character classes and wrapping

567   Unicode Normalization Forms [UAX15] – especially NFC for [RFC5198]

568   Unicode Text Segmentation [UAX29] – grapheme clusters, words, sentences

569   Unicode Identifier and Pattern Syntax [UAX31] – identifier use and normalization

570   Unicode Collation Algorithm [UTS10] – sorting

571   Unicode Locale Data Markup Language [UTS35] – locale databases

572   Implementations of this specification are advised to also review the following informational
573   documents on processing of human-readable Unicode text strings:

574   Unicode Character Encoding Model [UTR17] – multi-layer character model

575   Unicode Character Property Model [UTR23] – character properties

576   Unicode Conformance Model [UTR33] – Unicode conformance basis

577   # 11. Security and Privacy Considerations

578   The media names defined in this document require the same security and privacy
579   considerations as defined in the Internet Printing Protocol/1.1 [STD92].

580   Implementations of this specification SHOULD conform to the following standard on
581   processing of human-readable Unicode text strings, see:

582   Unicode Security Mechanisms [UTS39] – detecting and avoiding security attacks

583   Implementations of this specification are advised to also review the following informational
584   document on processing of human-readable Unicode text strings:

585   Unicode Security FAQ [UNISECFAQ] – common Unicode security issues
586

587 **12. IANA Considerations**

588 **12.1 Type2 Keyword Registrations**

589 The keyword values defined in this specification will be published by IANA according to the
590 procedures in the Internet Printing Protocol/1.1 [STD92] in the following location:

591 https://www.iana.org/assignments/ipp-registrations

592 The registry entries will contain the following information:

```
593     Attributes (attribute syntax)
594       Keyword Attribute Value                              Reference
595       ----------------------                               ---------
596     media (type2 keyword | name(MAX))                      [RFC8011]
597       asme_f_28x40in                                       [PWG5101.1]
598       iso_2a0_1189x1682mm                                  [PWG5101.1]
599       iso_a0_841x1189mm                                    [PWG5101.1]
600       iso_a0x3_1189x2523mm                                 [PWG5101.1]
601       iso_a10_26x37mm                                      [PWG5101.1]
602       iso_a1_594x841mm                                     [PWG5101.1]
603       iso_a1x3_841x1783mm                                  [PWG5101.1]
604       iso_a1x4_841x2378mm                                  [PWG5101.1]
605       iso_a2_420x594mm                                     [PWG5101.1]
606       iso_a2x3_594x1261mm                                  [PWG5101.1]
607       iso_a2x4_594x1682mm                                  [PWG5101.1]
608       iso_a2x5_594x2102mm                                  [PWG5101.1]
609       iso_a3-extra_322x445mm                               [PWG5101.1]
610       iso_a3_297x420mm                                     [PWG5101.1]
611       iso_a3x3_420x891mm                                   [PWG5101.1]
612       iso_a3x4_420x1189mm                                  [PWG5101.1]
613       iso_a3x5_420x1486mm                                  [PWG5101.1]
614       iso_a3x6_420x1783mm                                  [PWG5101.1]
615       iso_a3x7_420x2080mm                                  [PWG5101.1]
616       iso_a4-extra_235.5x322.3mm                           [PWG5101.1]
617       iso_a4-tab_225x297mm                                 [PWG5101.1]
618       iso_a4_210x297mm                                     [PWG5101.1]
619       iso_a4x3_297x630mm                                   [PWG5101.1]
620       iso_a4x4_297x841mm                                   [PWG5101.1]
621       iso_a4x5_297x1051mm                                  [PWG5101.1]
622       iso_a4x6_297x1261mm                                  [PWG5101.1]
623       iso_a4x7_297x1471mm                                  [PWG5101.1]
624       iso_a4x8_297x1682mm                                  [PWG5101.1]
625       iso_a4x9_297x1892mm                                  [PWG5101.1]
626       iso_a5-extra_174x235mm                               [PWG5101.1]
627       iso_a5_148x210mm                                     [PWG5101.1]
628       iso_a6_105x148mm                                     [PWG5101.1]
629       iso_a7_74x105mm                                      [PWG5101.1]
630       iso_a8_52x74mm                                       [PWG5101.1]
631       iso_a9_37x52mm                                       [PWG5101.1]
632       iso_b0_1000x1414mm                                   [PWG5101.1]
633       iso_b10_31x44mm                                      [PWG5101.1]
634       iso_b1_707x1000mm                                    [PWG5101.1]
635       iso_b2_500x707mm                                     [PWG5101.1]
```

636	iso_b3_353x500mm	[PWG5101.1]
637	iso_b4_250x353mm	[PWG5101.1]
638	iso_b5-extra_201x276mm	[PWG5101.1]
639	iso_b5_176x250mm	[PWG5101.1]
640	iso_b6_125x176mm	[PWG5101.1]
641	iso_b6c4_125x324mm	[PWG5101.1]
642	iso_b7_88x125mm	[PWG5101.1]
643	iso_b8_62x88mm	[PWG5101.1]
644	iso_b9_44x62mm	[PWG5101.1]
645	iso_c0_917x1297mm	[PWG5101.1]
646	iso_c10_28x40mm	[PWG5101.1]
647	iso_c1_648x917mm	[PWG5101.1]
648	iso_c2_458x648mm	[PWG5101.1]
649	iso_c3_324x458mm	[PWG5101.1]
650	iso_c4_229x324mm	[PWG5101.1]
651	iso_c5_162x229mm	[PWG5101.1]
652	iso_c6_114x162mm	[PWG5101.1]
653	iso_c6c5_114x229mm	[PWG5101.1]
654	iso_c7_81x114mm	[PWG5101.1]
655	iso_c7c6_81x162mm	[PWG5101.1]
656	iso_c8_57x81mm	[PWG5101.1]
657	iso_c9_40x57mm	[PWG5101.1]
658	iso_dl_110x220mm	[PWG5101.1]
659	iso_id-1_53.98x85.6mm	[PWG5101.1]
660	iso_ra0_860x1220mm	[PWG5101.1]
661	iso_ra1_610x860mm	[PWG5101.1]
662	iso_ra2_430x610mm	[PWG5101.1]
663	iso_ra3_305x430mm	[PWG5101.1]
664	iso_ra4_215x305mm	[PWG5101.1]
665	iso_sra0_900x1280mm	[PWG5101.1]
666	iso_sra1_640x900mm	[PWG5101.1]
667	iso_sra2_450x640mm	[PWG5101.1]
668	iso_sra3_320x450mm	[PWG5101.1]
669	iso_sra4_225x320mm	[PWG5101.1]
670	jis_b0_1030x1456mm	[PWG5101.1]
671	jis_b10_32x45mm	[PWG5101.1]
672	jis_b1_728x1030mm	[PWG5101.1]
673	jis_b2_515x728mm	[PWG5101.1]
674	jis_b3_364x515mm	[PWG5101.1]
675	jis_b4_257x364mm	[PWG5101.1]
676	jis_b5_182x257mm	[PWG5101.1]
677	jis_b6_128x182mm	[PWG5101.1]
678	jis_b7_91x128mm	[PWG5101.1]
679	jis_b8_64x91mm	[PWG5101.1]
680	jis_b9_45x64mm	[PWG5101.1]
681	jis_exec_216x330mm	[PWG5101.1]
682	jpn_chou2_111.1x146mm	[PWG5101.1]
683	jpn_chou3_120x235mm	[PWG5101.1]
684	jpn_chou4_90x205mm	[PWG5101.1]
685	jpn_hagaki_100x148mm	[PWG5101.1]
686	jpn_kahu_240x322.1mm	[PWG5101.1]
687	jpn_kaku1_270x382mm	[PWG5101.1]
688	jpn_kaku2_240x332mm	[PWG5101.1]
689	jpn_kaku3_216x277mm	[PWG5101.1]
690	jpn_kaku4_197x267mm	[PWG5101.1]
691	jpn_kaku5_190x240mm	[PWG5101.1]
692	jpn_kaku7_142x205mm	[PWG5101.1]

693	jpn_kaku8_119x197mm	[PWG5101.1]
694	jpn_oufuku_148x200mm	[PWG5101.1]
695	jpn_you4_105x235mm	[PWG5101.1]
696	na_10x11_10x11in	[PWG5101.1]
697	na_10x13_10x13in	[PWG5101.1]
698	na_10x14_10x14in	[PWG5101.1]
699	na_10x15_10x15in	[PWG5101.1]
700	na_11x12_11x12in	[PWG5101.1]
701	na_11x15_11x15in	[PWG5101.1]
702	na_12x19_12x19in	[PWG5101.1]
703	na_5x7_5x7in	[PWG5101.1]
704	na_6x9_6x9in	[PWG5101.1]
705	na_7x9_7x9in	[PWG5101.1]
706	na_9x11_9x11in	[PWG5101.1]
707	na_a2_4.375x5.75in	[PWG5101.1]
708	na_arch-a_9x12in	[PWG5101.1]
709	na_arch-b_12x18in	[PWG5101.1]
710	na_arch-c_18x24in	[PWG5101.1]
711	na_arch-d_24x36in	[PWG5101.1]
712	na_arch-e_36x48in	[PWG5101.1]
713	na_b-plus_12x19.17in	[PWG5101.1]
714	na_c5_6.5x9.5in	[PWG5101.1]
715	na_c_17x22in	[PWG5101.1]
716	na_d_22x34in	[PWG5101.1]
717	na_e_34x44in	[PWG5101.1]
718	na_edp_11x14in	[PWG5101.1]
719	na_eur-edp_12x14in	[PWG5101.1]
720	na_executive_7.25x10.5in	[PWG5101.1]
721	na_f_44x68in	[PWG5101.1]
722	na_fanfold-eur_8.5x12in	[PWG5101.1]
723	na_fanfold-us_11x14.875in	[PWG5101.1]
724	na_foolscap_8.5x13in	[PWG5101.1]
725	na_govt-legal_8x13in	[PWG5101.1]
726	na_govt-letter_8x10in	[PWG5101.1]
727	na_index-3x5_3x5in	[PWG5101.1]
728	na_index-4x6-ext_6x8in	[PWG5101.1]
729	na_index-4x6_4x6in	[PWG5101.1]
730	na_index-5x8_5x8in	[PWG5101.1]
731	na_invoice_5.5x8.5in	[PWG5101.1]
732	na_ledger_11x17in	[PWG5101.1]
733	na_legal-extra_9.5x15in	[PWG5101.1]
734	na_legal_8.5x14in	[PWG5101.1]
735	na_letter-extra_9.5x12in	[PWG5101.1]
736	na_letter-plus_8.5x12.69in	[PWG5101.1]
737	na_letter_8.5x11in	[PWG5101.1]
738	na_monarch_3.875x7.5in	[PWG5101.1]
739	na_number-10_4.125x9.5in	[PWG5101.1]
740	na_number-11_4.5x10.375in	[PWG5101.1]
741	na_number-12_4.75x11in	[PWG5101.1]
742	na_number-14_5x11.5in	[PWG5101.1]
743	na_number-9_3.875x8.875in	[PWG5101.1]
744	na_oficio_8.5x13.4in	[PWG5101.1]
745	na_personal_3.625x6.5in	[PWG5101.1]
746	na_quarto_8.5x10.83in	[PWG5101.1]
747	na_super-a_8.94x14in	[PWG5101.1]
748	na_super-b_13x19in	[PWG5101.1]
749	na_wide-format_30x42in	[PWG5101.1]

```
750              oe_12x16_12x16in                           [PWG5101.1]
751              oe_14x17_14x17in                           [PWG5101.1]
752              oe_18x22_18x22in                           [PWG5101.1]
753              oe_a2plus_17x24in                          [PWG5101.1]
754              oe_business-card_2x3.5in                   [PWG5101.1]
755              oe_photo-10r_10x12in                       [PWG5101.1]
756              oe_photo-12r_12x15in                       [PWG5101.1]
757              oe_photo-14x18_14x18in                     [PWG5101.1]
758              oe_photo-16r_16x20in                       [PWG5101.1]
759              oe_photo-20r_20x24in                       [PWG5101.1]
760              oe_photo-22r_22x29.5in                     [PWG5101.1]
761              oe_photo-22x28_22x28in                     [PWG5101.1]
762              oe_photo-24r_24x31.5in                     [PWG5101.1]
763              oe_photo-24x30_24x30in                     [PWG5101.1]
764              oe_photo-30r_30x40in                       [PWG5101.1]
765              oe_photo-l_3.5x5in                         [PWG5101.1]
766              oe_photo-s10r_10x15in                      [PWG5101.1]
767              oe_square-photo_4x4in                      [PWG5101.1]
768              oe_square-photo_5x5in                      [PWG5101.1]
769              om_16k_184x260mm                           [PWG5101.1]
770              om_16k_195x270mm                           [PWG5101.1]
771              om_business-card_55x85mm                   [PWG5101.1]
772              om_business-card_55x91mm                   [PWG5101.1]
773              om_dai-pa-kai_275x395mm                    [PWG5101.1]
774              om_dsc-photo_89x119mm                      [PWG5101.1]
775              om_folio-sp_215x315mm                      [PWG5101.1]
776              om_folio_210x330mm                         [PWG5101.1]
777              om_invite_220x220mm                        [PWG5101.1]
778              om_italian_110x230mm                       [PWG5101.1]
779              om_juuro-ku-kai_198x275mm                  [PWG5101.1]
780              om_large-photo_200x300mm                   [PWG5101.1]
781              om_medium-photo_130x180mm                  [PWG5101.1]
782              om_pa-kai_267x389mm                        [PWG5101.1]
783              om_photo-30x40_300x400mm                   [PWG5101.1]
784              om_photo-30x45_300x450mm                   [PWG5101.1]
785              om_photo-35x46_350x460mm                   [PWG5101.1]
786              om_photo-40x60_400x600mm                   [PWG5101.1]
787              om_photo-50x75_500x750mm                   [PWG5101.1]
788              om_photo-50x76_500x760mm                   [PWG5101.1]
789              om_photo-60x90_600x900mm                   [PWG5101.1]
790              om_postfix_114x229mm                       [PWG5101.1]
791              om_small-photo_100x150mm                   [PWG5101.1]
792              om_square-photo_89x89mm                     [PWG5101.1]
793              om_wide-photo_100x200mm                    [PWG5101.1]
794              prc_10_324x458mm                           [PWG5101.1]
795              prc_16k_146x215mm                          [PWG5101.1]
796              prc_1_102x165mm                            [PWG5101.1]
797              prc_2_102x176mm                            [PWG5101.1]
798              prc_32k_97x151mm                           [PWG5101.1]
799              prc_3_125x176mm                            [PWG5101.1]
800              prc_4_110x208mm                            [PWG5101.1]
801              prc_5_110x220mm                            [PWG5101.1]
802              prc_6_120x320mm                            [PWG5101.1]
803              prc_7_160x230mm                            [PWG5101.1]
804              prc_8_120x309mm                            [PWG5101.1]
805              roc_16k_7.75x10.75in                       [PWG5101.1]
806              roc_8k_10.75x15.5in                        [PWG5101.1]
```

```
807
808        media-back-coating (type2 keyword | name(MAX))            [PWG5100.7]
809          glossy                                                  [PWG5101.1]
810          high-gloss                                              [PWG5101.1]
811          matte                                                   [PWG5101.1]
812          none                                                    [PWG5101.1]
813          satin                                                   [PWG5101.1]
814          semi-gloss                                              [PWG5101.1]
815
816        media-color (type2 keyword | name(MAX))                   [PWG5100.7]
817          black                                                   [PWG5101.1]
818          brown                                                   [PWG5101.1]
819          clear-black                                             [PWG5101.1]
820          clear-blue                                              [PWG5101.1]
821          clear-brown                                             [PWG5101.1]
822          clear-buff                                              [PWG5101.1]
823          clear-cyan                                              [PWG5101.1]
824          clear-gold                                              [PWG5101.1]
825          clear-goldenrod                                         [PWG5101.1]
826          clear-gray                                              [PWG5101.1]
827          clear-green                                             [PWG5101.1]
828          clear-ivory                                             [PWG5101.1]
829          clear-magenta                                           [PWG5101.1]
830          clear-multi-color                                       [PWG5101.1]
831          clear-mustard                                           [PWG5101.1]
832          clear-orange                                            [PWG5101.1]
833          clear-pink                                              [PWG5101.1]
834          clear-red                                               [PWG5101.1]
835          clear-silver                                            [PWG5101.1]
836          clear-turquoise                                         [PWG5101.1]
837          clear-violet                                            [PWG5101.1]
838          clear-white                                             [PWG5101.1]
839          clear-yellow                                            [PWG5101.1]
840          cyan                                                    [PWG5101.1]
841          dark-blue                                               [PWG5101.1]
842          dark-brown                                              [PWG5101.1]
843          dark-buff                                               [PWG5101.1]
844          dark-cyan                                               [PWG5101.1]
845          dark-gold                                               [PWG5101.1]
846          dark-goldenrod                                          [PWG5101.1]
847          dark-gray                                               [PWG5101.1]
848          dark-green                                              [PWG5101.1]
849          dark-ivory                                              [PWG5101.1]
850          dark-magenta                                            [PWG5101.1]
851          dark-mustard                                            [PWG5101.1]
852          dark-orange                                             [PWG5101.1]
853          dark-pink                                               [PWG5101.1]
854          dark-red                                                [PWG5101.1]
855          dark-silver                                             [PWG5101.1]
856          dark-turquoise                                          [PWG5101.1]
857          dark-violet                                             [PWG5101.1]
858          dark-yellow                                             [PWG5101.1]
859          gold                                                    [PWG5101.1]
860          light-black                                             [PWG5101.1]
861          light-blue                                              [PWG5101.1]
862          light-brown                                             [PWG5101.1]
863          light-buff                                              [PWG5101.1]
```

```
864           light-cyan                                   [PWG5101.1]
865           light-gold                                   [PWG5101.1]
866           light-goldenrod                              [PWG5101.1]
867           light-gray                                   [PWG5101.1]
868           light-green                                  [PWG5101.1]
869           light-ivory                                  [PWG5101.1]
870           light-magenta                                [PWG5101.1]
871           light-mustard                                [PWG5101.1]
872           light-orange                                 [PWG5101.1]
873           light-pink                                   [PWG5101.1]
874           light-red                                    [PWG5101.1]
875           light-silver                                 [PWG5101.1]
876           light-turquoise                              [PWG5101.1]
877           light-violet                                 [PWG5101.1]
878           light-yellow                                 [PWG5101.1]
879           magenta                                      [PWG5101.1]
880           multi-color                                  [PWG5101.1]
881           mustard                                      [PWG5101.1]
882           silver                                       [PWG5101.1]
883           turquoise                                    [PWG5101.1]
884           violet                                       [PWG5101.1]
885
886       media-front-coating (type2 keyword | name(MAX))  [PWG5100.7]
887          <Any "media-back-coating" value>              [PWG5101.1]
888
889       media-type (type2 keyword | name(MAX))           [PWG5100.7]
890          aluminum(deprecated)                          [PWG5101.1]
891          auto                                          [PWG5101.1]
892          back-print-film                               [PWG5101.1]
893          cardboard                                     [PWG5101.1]
894          cardstock                                     [PWG5101.1]
895          cardstock-coated                              [PWG5101.1]
896          cardstock-heavyweight                         [PWG5101.1]
897          cardstock-heavyweight-coated                  [PWG5101.1]
898          cardstock-lightweight                         [PWG5101.1]
899          cardstock-lightweight-coated                  [PWG5101.1]
900          cd(deprecated)                                [PWG5101.1]
901          continuous                                    [PWG5101.1]
902          continuous-long                               [PWG5101.1]
903          continuous-short                              [PWG5101.1]
904          corrogated-board(deprecated)                  [PWG5101.1]
905          disc                                          [PWG5101.1]
906          disc-glossy                                   [PWG5101.1]
907          disc-high-gloss                               [PWG5101.1]
908          disc-matte                                    [PWG5101.1]
909          disc-satin                                    [PWG5101.1]
910          disc-semi-gloss                               [PWG5101.1]
911          double-wall                                   [PWG5101.1]
912          dry-film                                      [PWG5101.1]
913          dvd(deprecated)                               [PWG5101.1]
914          embossing-foil                                [PWG5101.1]
915          end-board                                     [PWG5101.1]
916          envelope                                      [PWG5101.1]
917          envelope-archival                             [PWG5101.1]
918          envelope-bond                                 [PWG5101.1]
919          envelope-coated                               [PWG5101.1]
920          envelope-cotton                               [PWG5101.1]
```

921	envelope-fine	[PWG5101.1]
922	envelope-heavyweight	[PWG5101.1]
923	envelope-inkjet	[PWG5101.1]
924	envelope-lightweight	[PWG5101.1]
925	envelope-plain	[PWG5101.1]
926	envelope-preprinted	[PWG5101.1]
927	envelope-window	[PWG5101.1]
928	fabric	[PWG5101.1]
929	fabric-archival	[PWG5101.1]
930	fabric-glossy	[PWG5101.1]
931	fabric-high-gloss	[PWG5101.1]
932	fabric-matte	[PWG5101.1]
933	fabric-semi-gloss	[PWG5101.1]
934	fabric-waterproof	[PWG5101.1]
935	film	[PWG5101.1]
936	flexo-base	[PWG5101.1]
937	flexo-photo-polymer	[PWG5101.1]
938	flute	[PWG5101.1]
939	foil	[PWG5101.1]
940	full-cut-tabs	[PWG5101.1]
941	glass	[PWG5101.1]
942	glass-colored	[PWG5101.1]
943	glass-opaque	[PWG5101.1]
944	glass-surfaced	[PWG5101.1]
945	glass-textured	[PWG5101.1]
946	gravure-cylinder	[PWG5101.1]
947	image-setter-paper	[PWG5101.1]
948	imaging-cylinder	[PWG5101.1]
949	labels	[PWG5101.1]
950	labels-colored	[PWG5101.1]
951	labels-glossy	[PWG5101.1]
952	labels-heavyweight	[PWG5101.1]
953	labels-high-gloss	[PWG5101.1]
954	labels-inkjet	[PWG5101.1]
955	labels-lightweight	[PWG5101.1]
956	labels-matte	[PWG5101.1]
957	labels-permanent	[PWG5101.1]
958	labels-satin	[PWG5101.1]
959	labels-security	[PWG5101.1]
960	labels-semi-gloss	[PWG5101.1]
961	letterhead(deprecated)	[PWG5101.1]
962	metal	[PWG5101.1]
963	metal-glossy	[PWG5101.1]
964	metal-high-gloss	[PWG5101.1]
965	metal-matte	[PWG5101.1]
966	metal-satin	[PWG5101.1]
967	metal-semi-gloss	[PWG5101.1]
968	mounting-tape	[PWG5101.1]
969	multi-layer	[PWG5101.1]
970	multi-part-form	[PWG5101.1]
971	other(deprecated)	[PWG5101.1]
972	paper(deprecated)	[PWG5101.1]
973	photographic	[PWG5101.1]
974	photographic-archival	[PWG5101.1]
975	photographic-film	[PWG5101.1]
976	photographic-glossy	[PWG5101.1]
977	photographic-high-gloss	[PWG5101.1]

978	photographic-matte	[PWG5101.1]
979	photographic-satin	[PWG5101.1]
980	photographic-semi-gloss	[PWG5101.1]
981	plastic	[PWG5101.1]
982	plastic-archival	[PWG5101.1]
983	plastic-colored	[PWG5101.1]
984	plastic-glossy	[PWG5101.1]
985	plastic-high-gloss	[PWG5101.1]
986	plastic-matte	[PWG5101.1]
987	plastic-satin	[PWG5101.1]
988	plastic-semi-gloss	[PWG5101.1]
989	plate	[PWG5101.1]
990	polyester	[PWG5101.1]
991	pre-cut-tabs	[PWG5101.1]
992	roll(deprecated)	[PWG5101.1]
993	screen	[PWG5101.1]
994	screeen-paged	[PWG5101.1]
995	self-adhesive	[PWG5101.1]
996	self-adhesive-film	[PWG5101.1]
997	shrink-foil	[PWG5101.1]
998	single-face	[PWG5101.1]
999	single-wall	[PWG5101.1]
1000	sleeve	[PWG5101.1]
1001	stationery	[PWG5101.1]
1002	stationery-archival	[PWG5101.1]
1003	stationery-bond	[PWG5101.1]
1004	stationery-coated	[PWG5101.1]
1005	stationery-cotton	[PWG5101.1]
1006	stationery-fine	[PWG5101.1]
1007	stationery-heavyweight	[PWG5101.1]
1008	stationery-heavyweight-coated	[PWG5101.1]
1009	stationery-inkjet	[PWG5101.1]
1010	stationery-letterhead	[PWG5101.1]
1011	stationery-lightweight	[PWG5101.1]
1012	stationery-preprinted	[PWG5101.1]
1013	stationery-prepunched	[PWG5101.1]
1014	stationery-recycled	[PWG5101.1]
1015	tab-stock	[PWG5101.1]
1016	tractor	[PWG5101.1]
1017	transfer	[PWG5101.1]
1018	transparency	[PWG5101.1]
1019	triple-wall	[PWG5101.1]
1020	wet-film	[PWG5101.1]

1021 13. Overview of Changes

1022 13.1 PWG Media Standardized Names v2.1

1023 The following changes were made to the 2.0 version of this specification [PWG5101.1-2013]:

1024 • Added new IANA registered media names,

1025   • Added support for vendor names using 'smiNNNN-' prefixes in addition to the older
1026   reverse-DNS prefix,

1027   • Updated the ABNF rules,

1028   • Updated references to current versions of referenced specifications, and

1029   • Resolved all reported issues.

1030   **13.2 PWG Media Standardized Names v2.0**

1031   The following changes were made to the 1.0 version of this specification [PWG5101.1-2002]:

1032   • Added media coating, source, and tooth names,

1033   • Added roll fed media conventions, and

1034   • Added IANA registrations.

1035   # 14. Collected ABNF

1036   The following ABNF [STD68] grammar defines the syntax of valid names in this specification.
1037   This ABNF is also available online [MSN-ABNF].

```
1038        ; ABNF definitions for PWG 5101.1-2023: PWG Media Standardized Names v2.1
1039        (MSN)
1040        ;
1041        ; Last Update: April 28, 2023
1042        ;
1043        ; The ABNF definitions contained herein, if different from the definitions
1044        in
1045        ; the specification, supercede those present in the specification.
1046        ;
1047        ; NOTE: This ABNF allows for a mix of uppercase and lowercase letters in
1048        ; names, however specific bindings such as the Internet Printing Protocol
1049        ; only allow for lowercase letters.
1050        ;
1051
1052
```

```
1053              ; 3 Media Type Names
1054         type-name = custom-type-name / derived-type-name / standard-type-name /
1055                     vendor-type-name
1056
1057         custom-type-name = "custom-" base-name
1058
1059         derived-type-name = "derived-" base-name "_"
1060                             ( base-name / custom-type-name / vendor-type-name )
1061
1062         standard-type-name = keyword
1063
1064         vendor-type-name = (dns-name / smi-name) "-" base-name
1065
1066         ; 4 Color Names
1067         color-name = custom-color-name / standard-color-name / vendor-color-name
1068
1069         custom-color-name = "custom-" base-name
1070                            *( "_" red-color green-color blue-color
1071                               [ alpha-color ] )
1072
1073         standard-color-name = keyword
1074
1075         vendor-color-name = (dns-name / smi-name) "-" base-name
1076                            *( "_" red-color green-color blue-color
1077                               [ alpha-color ] )
1078
1079         red-color   = 2HEXDIG
1080         green-color = 2HEXDIG
1081         blue-color  = 2HEXDIG
1082         alpha-color = 2HEXDIG
1083
1084         ; 5 Media Size Names
1085         media-size-self-describing-name =
1086                         media-size-name / "choice" 2*( "_" media-size-name )
1087         media-size-name = class-in "_" size-name "_" width-dim "x" length-dim "in"
1088         /
1089                           class-mm "_" size-name "_" width-dim "x" length-dim "mm"
1090         /
1091                           "disc_" size-name "_" inner-dim "x" outer-dim "mm"
1092         class-in       = "custom" / "na" / "asme" / "roc" / "oe" / "roll"
1093         class-mm       = "custom" / "iso" / "jis" / "jpn" / "prc" / "om" / "roll"
1094         size-name      = base-name
1095         width-dim      = dim
1096         length-dim     = dim / "0"
1097         inner-dim      = dim
1098         outer-dim      = dim
1099         dim            = integer-part [fraction-part] / "0" fraction-part
1100         integer-part   = non-zero-digit *DIGIT
1101         fraction-part  = "." *DIGIT non-zero-digit
1102
1103         class-name     = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "." )
1104
1105
```

```
1106          ; 6 Media Coating Names
1107          coating-name = custom-coating-name / standard-coating-name /
1108                         vendor-coating-name
1109
1110          custom-coating-name = "custom-" base-name
1111
1112          standard-coating-name = keyword
1113
1114          vendor-coating-name = (dns-name / smi-name) "-" base-name
1115
1116          ; 7 Media Source Names
1117          source-name = custom-source-name / standard-source-name / vendor-source-
1118          name
1119
1120          custom-source-name = "custom-" base-name
1121
1122          standard-source-name = keyword
1123
1124          vendor-source-name = (dns-name / smi-name) "-" base-name
1125
1126          ; 8 Media Tooth Names
1127          tooth-name = custom-tooth-name / standard-tooth-name / vendor-tooth-name
1128
1129          custom-tooth-name = "custom-" base-name
1130
1131          standard-tooth-name = keyword
1132
1133          vendor-tooth-name = (dns-name / smi-name) "-" base-name
1134
1135          ; Common rules
1136          base-name = ( ALPHA / DIGIT ) *( ALPHA / DIGIT / "-" / "." )
1137
1138          dns-name = 1*ALPHA 1*( "." 1*( ALPHA / DIGIT / "-" ) )
1139
1140          smi-name = "smi" 1*DIGIT
1141
1142          keyword = ALPHA 1*( ALPHA / DIGIT / "-" / "_" / ".")
1143
1144          non-zero-digit = %x31-39
1145
1146          ; EOF

1147
```

1148 **15. Parser Considerations for the Media Size Name**
1149 **(Informative)**

1150 Special consideration needs to be made during the development of a parser for the Media
1151 Size Name. Since additional "class" names and "size-names" will be defined in the future,
1152 in many cases the parser cannot be strictly conformant to the ABNF. The following is
1153 intended to provide guidelines for the development of client parsers and device parsers.

1154 **15.1 Client Parsers**

1155 There are several degrees of client which display something to the user for selection and
1156 MAY format documents (where it would need to know the dimensions):

1157   1. Non-formatting client; In this case, the parser treats the string as a unit and can
1158   simply display it to the user as is, no parsing is required. If the parser localizes
1159   and finds a string that it doesn't recognize, then it can just display the entire
1160   string as received, or perhaps breaks it up into separate pieces separated by a
1161   space. Such a client most likely doesn't format documents, so it will not even
1162   care about the dimensions, only the user and Printer do.
1163   2. Client does formatting; Now the client will separate the class field, the name
1164   field, and the dimension field. The class and name fields can be displayed as is
1165   or localized, and the dimensions are converted to the units preferred by the user.
1166   If a class or name field isn't recognized, it will be displayed as is, perhaps with
1167   underlines replaced by spaces. The dimensions will also be converted to the
1168   internal units for formatting documents.

1169 **15.2 Device Parsers**

1170 On the Printer side, there are two cases to consider, the one that doesn't support client's
1171 inventing custom sizes and the one that does. If the Printer displays media sizes to an
1172 operator or on a control panel, then that parser code has the same problems as the client
1173 (see above):

1174   1. Device doesn't support client-defined custom sizes; In this situation the parser
1175   doesn't even need to parse the string. It simply compares the entire string with a
1176   list of supported strings, including system administrator defined custom sizes. If
1177   there isn't a match, the Printer doesn't support that requested size and takes the
1178   appropriate action.
1179   2. Device supports client-invented custom sizes; Here the Printer parser MUST
1180   look at the class field for "custom", then parse the dimensions and check for a
1181   valid range and then possibly convert to the Printer's internal units.

1182   16. Localization Considerations (Informative)

1183   Media names, like most other attributes and values, are localized using a combination of
1184   client-side and printer-supplied message catalogs that are keyed using the attribute name
1185   and value. For example, the "printer-strings-uri" Printer Description attribute [PWG5100.13]
1186   provides a URI to a message catalog hosted by an IPP Printer. An English message catalog
1187   for all registered IPP attributes and values is available from the PWG [PWG-CATALOG].

1188   Note: Many client user interfaces prefer strings from local, client-side message catalogs over
1189   those supplied by a printer. This is typically done to provide a more consistent user
1190   experience and/or support certain accessibility goals.

1191   16.1 Localizing Media Size Names

1192   Common media sizes are often recognized by local names, for example "US Letter" for
1193   'na_letter_8.5x11in' or "A4" for "iso_a4_210x297mm". Less common sizes are better known
1194   by dimensional names, for example "8 x 10" for 'na_govt-letter_8x10in'. Client user
1195   interfaces typically use local names for a small set of common sizes and dimensional names
1196   for other media sizes, sometimes supplemented by the "size-name" portion of a self-
1197   describing name, for example by adding "Photo" or "Envelope" to the dimensional name
1198   when the "size-name" contains 'photo' or 'envelope', respectively.

1199   16.2 Localizing Media Color Names

1200   Media color names should be presented with both the equivalent visible coloring and the
1201   localized written name for the color in order to allow users with different vision abilities to
1202   clearly identify them.

1203   16.3 Localizing Other Names

1204   Other media names are typically provided as hyphenated US English strings, for example
1205   'photographic-glossy' and 'tray-3'. A naive client implementation could convert these strings
1206   to title case, for example "Photographic Glossy" and "Tray 3", and then use machine
1207   translation to produce localized versions. However, such localized names are a poor
1208   substitute for proper message catalogs from the printer or on the client.

1209   17. References

1210   17.1 Normative References

1211   [ASME-IN]   The American Society of Mechanical Engineers, "Decimal Inch
1212   Drawing Sheet Size and Format", ASME Y14-1995

1213   [ASME-M]   The American Society of Mechanical Engineers, "Metric Drawing
1214   Sheet Size and Format", ASME Y14.M-1995

1215 [BCP14]   S. Bradner, "Key words for use in RFCs to Indicate Requirement
1216   Levels", RFC 2119/BCP 14, March 1997,
1217   https://datatracker.ietf.org/doc/html/rfc2119

1218 [IEEE1284.1] "IEEE Standard for Information Technology, Transport Independent
1219   Printer/System Interface", IEEE Std 1284.1-1997

1220 [ISO10175]   "Document Printing Application", ISO/IEC 10175, June 1996

1221 [ISO10646]   "Information technology -- Universal Coded Character Set (UCS)",
1222   ISO/IEC 10646:2011

1223 [PWG5100.7]   M. Sweet, "IPP Job Extensions v2.1 (JOBEXT)", PWG 5100.7-2023,
1224   February 2023, https://ftp.pwg.org/pub/pwg/candidates/cs-
1225   ippjobext21-20230210-5100.7.pdf

1226 [PWG5100.13] S. Kennedy, M. Sweet, "IPP Driver Replacement Extensions v2.0
1227   (NODRIVER)", PWG 5100.13-2023, March 2023,
1228   https://ftp.pwg.org/pub/pwg/candidates/cs-ippnodriver20-20230301-
1229   5100.13.pdf

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