

ADVANCED DISPERSIONS COLOR SELECTION CHART



KEY

RS = Red Shade

YS = Yellow Shade

VYS = Very Yellow Shade

BS = Blue Shade

VBS = Very Blue Shade

GS = Green Shade

VGS = Very Green Shade

Tints = 10 Parts TiO₂ : 1 Part Pigment

Due to printing limitations, Avient makes no claims as to the exactness of hue and tint of color depicted on this chart. To ensure color accuracy, please contact a Avient representative for a sample.

Masstone	Tint				
		DIARYLIDE HR RS C.I. PY 83 Transparent			DIARYLIDE AAOT GS C.I. PY 14 Semi-Transparent
		ISOINDOLINONE RS C.I. PY 110 Semi-Transparent			DIARYLIDE AAMX RS C.I. PY 13 Semi-Transparent
		DISAZO GS C.I. PY 93 Transparent			IRON OXIDE RS C.I. PY 42 Opaque
		BENZIMIDAZOLONE GS C.I. PY 151 Semi-Transparent			DIARYLIDE AAOA GS C.I. PY 17 Transparent
		CERAMIC RS C.I. PY 24 Opaque			DIARYLIDE AAA RS C.I. PY 12 Semi-Transparent
		ISOINDOLINONE GS C.I. PY 109 Semi-Transparent			BENZIMIDAZOLONE GS C.I. PY 180 Semi-Transparent
		QUINAPHTHALONE GS C.I. PY 138 Semi-Transparent			AZO CONDENSATION RS C.I. PY 95 Semi-Transparent

Masstone**Tint****PERYLENE**

YS
C.I. PR 149
Transparent

**QUINACRIDONE**

BS
C.I. PV 19
Transparent

**QUINACRIDONE**

YS
C.I. PV 19
Semi-Transparent

**NAPHTHOL**

BS
C.I. PR 170
Opaque

**NAPHTHOL**

YS
C.I. PR 170
Opaque

**DPP**

YS
C.I. PR 254
Opaque

**RED LAKE C**

YS
C.I. PR 53:1
Semi-Transparent

**LITHOL RUBINE**

BS
C.I. PR 57:1
Transparent

**RED 2B CA SALT**

BS
C.I. PR 48:2
Semi-Transparent

**PYRAZOLONE**

YS
C.I. PR 38
Semi-Transparent

**PIGMENT SCARLETT**

BS
C.I. PR 60:1
Semi-Transparent

**RED 2B BA SALT**

YS
C.I. PR 48:1
Semi-Transparent

**IRON OXIDE**

BS
C.I. PR 101
Opaque

**IRON OXIDE**

VBS
C.I. PR 101
Opaque

**IRON OXIDE**

VYS
C.I. PR 101
Opaque

**IRON OXIDE**

YS
PR 101
Opaque

**BENZIMIDAZOLONE**

RS
C.I. PO 36
Opaque

**MONOAZO**

YS
C.I. PO 64
Semi-Transparent

**DIARYLIDE**

YS
C.I. PO 13
Opaque

**DIANISIDINE**

RS
C.I. PO16
Opaque

**IRON OXIDE**

YS
C.I. PBr 6
Opaque

**IRON OXIDE**

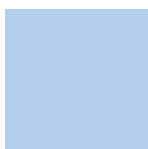
BS
C.I. PBr 6
Opaque

**IRON OXIDE**

YS
C.I. PBr 11
Opaque

Masstone

Tint



ULTRAMARINE

RS
C.I. PB 29
Transparent



PHTHALOCYANINE

RS
C.I. PB 15
Transparent



PHTHALOCYANINE

GS
C.I. PB 15:3
Transparent



PHTHALOCYANINE

RS
C.I. PB 15:1
Transparent



COBALT

RS
C.I. PB 28
Opaque



PHTHALOCYANINE

VYS
C.I. PG 36
Transparent



PHTHALOCYANINE

YS
C.I. PG 7
Transparent



PHTHALOCYANINE

BS
C.I. PG 7
Transparent



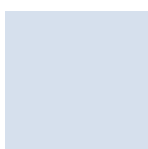
CHROMIUM OXIDE

YS
C.I. PG 17
Opaque



COBALT

YS
C.I. PG 50
Opaque



ULTRAMARINE

RS
C.I. PV 15
Transparent



QUINACRIDONE

RS
C.I. PV 19
Transparent



QUINACRIDONE

RS
C.I. PR 122
Semi-Transparent



BENZIMIDAZOLONE

RS
C.I. PV 32
Opaque



CARBAZOLE

BS
C.I. PV 23
Transparent



QUINACRIDONE

RS
C.I. PR 202
Semi-Transparent



TITANIUM DIOXIDE

C.I. PW 6
Opaque



CARBON BLACK

Medium Jet
C.I. PBk 7
Opaque



IRON OXIDE BLACK

C.I. PBk 11
Opaque



SPINEL BLACK

BS
C.I. PBk 26
Opaque



SPINEL BLACK

GS
C.I. PBk 28
Opaque



SPINEL BLACK

RS
C.I. PBk 33
Opaque

EXPLANATION OF SPECTROPHOTOMETRIC DATA

Avient certifies our colorants based on CIELAB spectrophotometric color difference data for each lot of product.

The spectrophotometer is coupled with a computer, which allows colors to be measured under controlled conditions, and compared to an established standard,

resulting in a numerical expression defining the relationship of the batch to the standard. While there is a variety of color difference formulations in use, the CIELAB is most commonly used in the plastics and polymer industry because it offers relatively good visual correlation over a wide range of color space.

SPECTROPHOTOMETER CONFIGURATION FOR COA

Type: Datacolor

Illuminate: D65 Daylight

Observer: 10 degree, large area view, specular included

EXPLANATION OF SPECTROPHOTOMETRIC VALUES

DL* Lightness/Darkness Difference (Delta L*)

The shade of gray (black/white)

+ = Lighter

- = Darker

Da* Red/Green Color Difference (Delta a*)

+ = Hue is redder (or less green than)

- = Hue is greener (or less red than)

Db* Yellow/Blue Color Difference (Delta b*)

+ = Hue is yellower (or less blue than)

- = Hue is bluer (or less yellow than)

DC* Difference Attributed to Chromaticity (Delta C*)

+ = More saturated than (more color intensity)

- = Less saturated than (less color intensity)

DH* Difference Due to Hue Only (Delta H*)

DE* Total Color Difference (Delta E*)

DE is a mathematical calculation utilizing the DL*, Da* and Db*, and therefore, used alone this number can be misleading as to the true color of a material. We recommend that our customers visually determine if the color of the product is acceptable.

USING THIS CHART

This color selection chart is a tool to assist in selecting the proper colorants for specific applications.

- C.I. numbers refer to the Color Index, the industry's standard guide.
- In each pair of color chips, the left sample represents the masstone or full shade, which is the color hue in clear media.
- The chip on the right shows the relative tint strength using 10 parts TiO₂.

This chart represents a small fraction of the colors available. Those depicted may not be an exact match for your requirements, but when Avient color experts learn how a color will be used and what materials are involved, they can suggest an appropriate pigment for your specific applications.



www.avient.com



Copyright © 2020, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.