ADVANCED DISPERSIONS COLOR SELECTION CHART

AVIENT™

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 TiO_2 : 1 Part Pigment

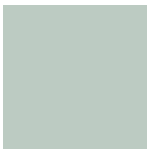
Due to printing limitations, Avient makes no claims as to the exactness of hue and tint of color depicted on this chart. To ensure color accuracy, please contact a Avient representative for a sample.

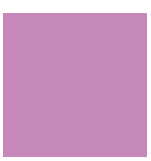
Masstone	Tint	
		DIARYLIDE HR RS C.I. PY 83 Transparent
		ISOINDOLINONE RS C.I. PY 110 Semi-Transparent
		DISAZO GS C.I. PY 93 Transparent
		BENZIMIDAZOLONE GS C.I. PY 151 Semi-Transparent
		CERAMIC RS C.I. PY 24 Opaque
		ISOINDOLINONE GS C.I. PY 109 Semi-Transparent
		QUINAPHTHALONE GS C.I. PY 138 Semi-Transparent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

ADVANCED DISPERSIONS SPECIALTY COLORANTS

Spectrophotometric Fact Sheet

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 TiO_2.

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.

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