



DCC Orange 1816

Description: DCC Orange 1816 is a blue shade orange pigment for use in plastic, ink and coating applications. DCC Orange 1816 can also be used as a lead free alternative to molybdate orange.

Chemical Type	Dianisidine Orange	Constitution No.	21160
Color Index	Pigment Orange 16	CAS No.	6505-28-8

Resistance Properties

MEK	4	Ethanol	4
Water	5	Ethyl Acetate	3
Mineral Spirits	5	Acid	5
Xylene	3	Alkali	4

Legend: 1=Poor, 2=Fair, 3=Good, 4=Very Good, 5=Excellent

Product Characteristics

Migration (1-5)		Lightfastness (1-8): Masstone	6
Heat Stability (°C/°F)	200°C (Paints) 240°C (HDPE)	Lightfastness (1-8): Tint 1:10	5
Warpage Rating (1-3) * Plastic Only	3	Weatherfastness (1-5): Masstone	3
Overpaint Resistance * Paints Only		Weatherfastness (1-5): Tint 1:10	1

Warpage: 1 = minimal, 2 = some, 3 = severe Weatherfastness: 1=Poor, 2=Fair, 3=Good, 4=Very Good, 5=Excellent Lightfastness: 1-2=Poor, 3-4=Fair, 5=Good, 6-7=Very Good, 8=Excellent

Physical Properties

Particle Size (µm)		pH	5.5-8.5
Specific Surface Area (m²/g)		Specific Gravity	1.3
Oil Absorption (g/100g)	30	Bulk Density (kg/L)	
Moisture Content (%)	<2.0%	Bulk Volume (L/kg)	

Applications

Plastics		Coatings		Inks		Other	
PVC	■	Decorative	■	Water Flexo	■	Paper	
PE	■	Automotive/Aerospace	□	Solvent Flexo	□	Rubber	■
PP	□	Industrial	□	InkJet	□	Finger Paints	
PS	□	Powder	■	UV	■	Seed Coatings	
PET	□			Offset	■		
Fiber	□						

□ Not Frequently Used □ Limited ■ Recommended

Comments:

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