DCL-Ultrablue® 3111 Ultramarine Blue

Description: DCL-Ultrablue® 3111 is a low sulfur, low moisture ultramarine blue. FDA approved (Section 178-3297).

Chemical Type	Ultramarine Blue	**Constitution No.**	77007
Color Index	Pigment Blue 29	**CAS No.**	57455-37-5

Resistance Properties

MEK	5	**Ethanol**	5
Water	5	**Ethyl Acetate**	5
Mineral Spirits	5	**Acid**	1
Xylene	5	**Alkali**	3

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

Product Characteristics

Migration (1-5)	5	**Lightfastness (1-8): Masstone**	7
Heat Stability (°C/°F)	350°C (HDPE)	**Lightfastness (1-8): Tint 1:10**	7
Warpage Rating (1-3) * Plastic Only	1	**Weatherfastness (1-5): Masstone**	
Overpaint Resistance * Paints Only	5	**Weatherfastness (1-5): Tint 1:10**	

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 D_{90} (µm)	≤ 4	**Tap Density (g/cc)**	0.50-0.55
Particle Size D_{100} (µm)	≤ 44	**Specific Gravity**	2.35
Specific Surface Area (m^2/g)		**Bulk Density (kg/L)**	
Moisture Content (%)	0.05	**Soluble Salts (%)**	0.7
Free Sulphur (max. % by wt.)	0.01	**Oil Absorption (g/100g)**	34-37

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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