DCC YELLOW 5RLT

Bright Mid Shade Yellow Inorganic Bismuth Vanadate Pigment

Working Together for Quality®

SPECIFICATIONS AND PROPERTIES

DESCRIPTION
DCC Yellow 5RLT is a bright mid shade yellow pigment with high colour strength. DCC Yellow 5RLT exhibits very good weather fastness and is especially developed for use in road marking paint and especially hot melt. DCC Yellow 5RLT demonstrates also excellent properties in polyolefins.

Chemical Type / Common Name	Inorganic / Bismuth Vanadate
Colour Index: Generic Name	Pigment Yellow 184
Colour Index: Constitution No.	771740
CAS Registry No.	14059-33-7
Chemical Name	Bismuth Vanadium Oxide

GENERAL SPECIFICATIONS	
Masstone Shade (L003)	Max. DE* 2.0
Tint (L003)	Strength 100 ±10%
Tint after Strength Adjustment (L003)	Max. DE* 2.0

PHYSICAL PROPERTIES	
Specific gravity	2.2 g/cm^3
Oil Absorption	28 g/100g
Volatile Content (X005)	Max. 2.0%
Conductivity (X017)	Max. 750 µs/cm
pH (X018)	6.0 - 8.0
Bulk density	0.4 kg/l
Tapped volume	1.8 l/kg
Specific surface area	t.b.d.

PROPERTIES			
Ethyl acetate	Very Good	**Soap**	Excellent
MEK	Good	**Ethyl alcohol**	Good
Wax (Paraffin)	Excellent	**Mineral spirits**	Excellent
Water	Excellent	**Xylene**	Very Good
Dilute acid (0.5N)	Excellent	**Dilute alkali (2.5%)**	Excellent

COATINGS SPECIFIC DATA					
Over-paint bleed resistance (120°C/30 minutes) - Excellent					
Heat Resistance:	120°C/60 minutes – Excellent		150°C/10 minutes – Excellent	200°C/10 minutes – Excellent	
Weather fastness *) Full Shade	4	**Weather fastness *) Tint 1:1 TiO2**	3 - 4		

*) Assessment was made using the ISO Grey Scale R105 A02 (1 = severe change, 5 = no change)

RECOMMENDED APPLICATIONS FOR COATINGS			
Architectural Water & Universal	○	**Coil Coatings**	○
Architectural Solvent	■	**Automotive Coatings**	○
Industrial Fast Air Drying	■	**Powder Coatings**	■
Industrial Oven Cured	■		
● Recommended	■ Limited Use	○ Not Recommended	

PLASTICS SPECIFIC DATA					
Heat Stability:	300ºC in HDPE, 5-minutes dwell time / 300°C in PP, 5 minutes dwell time				
Warp Resistance:	**1** (1 = none to minimal warpage, 2 = Some warpage, 3 = Not recommended)				
Weather fastness *) Full Shade (1.0% HDPE)	3 - 4	**Weather fastness *) Tint 1:1 TiO2**	3	**PVC Migration Resistance**	Excellent

*) Assessment was made using the ISO Grey Scale R105 A02 (1 = severe change, 5 = no change)

The information provided is based on extensive use and laboratory testing and is believed to be a reliable indication of the results that may be expected. The data is offered only as a guide to performance, without guarantee or warranty of any kind. Since many variables have a strong influence on pigment performance the user is encouraged to evaluate each product in their own laboratory.

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Fibres - polypropylene	●	**Injection molding**	●
Film	●	**PVC wire and cable**	■
Blow molding	●	**Engineering resins**	■
● Recommended	■ Limited Use	○ Not Recommended	

COMPLIANCE FOR PLASTICS			
EU APME: AP(89)1	**Germany:** BfR Recommendation IX	**EU RoHS**	**CONEG**

WORLDWIDE INVENTORIES REGISTRATION STATUS					
Australia (AICS)	Registered	**Canada (DSL)**	Registered	**China (IECSC)**	Registered
Europe (EINECS)	Registered	**Japan (ENCS)**	Pending	**Philippines (PICCS)**	Pending
USA (TSCA)	Registered	**New Zealand (NZIoC)**	Registered	**South Korea (KECI)**	Registered

TECHNICAL SERVICE LAB APPROVAL			
QUALITY CONTROL LAB APPROVAL			
DATE OF ISSUE	18th August 2016	***PAGE 2 OF 2***	Ver. # 0

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