

# DCC YELLOW 2GLMA

Green Shade Yellow Inorganic Bismuth Vanadate Pigment



Working Together for Quality®

## SPECIFICATIONS AND PROPERTIES

<b>DESCRIPTION</b>	
DCC Yellow 2GLMA is a green shade yellow pigment with excellent heat stability and weather fastness. DCC Yellow 2GLMA features high saturation and opacity and is recommended for many paint and plastic applications. Excellent resistance properties in polyolefins and non-warping in HDPE.	

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

<b>GENERAL SPECIFICATIONS</b>	
<b>Volatile Content (X005)</b>	Max. 1.0%
<b>Conductivity (X017)</b>	Max. 500 (µS/cm)
<b>pH (X018)</b>	5.5 – 8.5
<b>Masstone Shade (L003)</b>	Max. DE* 1.2, DL* ±0.5, DC* ±0.8, DH* ±0.7
<b>Tint (L003)</b>	Strength 100 ± 5%
<b>Tint after adjusted strength (L003)</b>	Max. DE* 1.0, DL* ±0.5, DC* ±0.7, DH* ±0.7

<b>PHYSICAL PROPERTIES</b>	
<b>Specific gravity</b>	5.8 g/cm <sup>3</sup>
<b>Oil absorption</b>	31 g/100g
<b>Bulk density</b>	0.5 kg/L
<b>Bulk volume</b>	2.0 L/kg
<b>Specific surface area</b>	10.1 m <sup>2</sup> /g

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

<b>COATINGS SPECIFIC DATA</b>					
<b>Heat Resistance:</b> 120°C/60 minutes – Excellent    150°C/10 minutes – Excellent    200°C/10 minutes – Excellent					
<b>Weather fastness *) Full Shade</b>	4-5	<b>Weather fastness*) Tint 1:1 TiO2</b>	5	<b>Weather fastness*) Tint 1:10 TiO2</b>	5
<b>Light fastness Full Shade</b>	Excellent	<b>Light fastness Tint 1:1 TiO2</b>	Excellent	<b>Light fastness Tint 1:10 TiO2</b>	Excellent

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

<b>RECOMMENDED APPLICATIONS</b>			
<b>Architectural Water &amp; Universal</b>	●	<b>Coil Coatings</b>	●
<b>Architectural Solvent</b>	●	<b>Automotive Coatings</b>	●
<b>Industrial Fast Air Drying</b>	●	<b>Powder Coatings</b>	●
<b>Industrial Oven Cured</b>	●		

● Recommended                      ■ Limited Use                      ○ Not Recommended

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<b>PLASTICS SPECIFIC DATA</b>					
<b>Heat Stability:</b> 275°C in HDPE, 5-minute dwell time					
<b>Warp Resistance:</b> (1) no warping (HDPE – plate test) - (1) no warping (HDPE – disc test) (1 = none to minimal warpage, 2 = Some warpage, 3 = Not recommended)					
<b>Weather fastness*) Full Shade (0.5%-HDPE)</b>	5	<b>Weather fastness*) 0.5:1.0 – pigment/TiO<sub>2</sub></b>	4-5	<b>PVC Migration Resistance</b>	Excellent
<b>Light fastness Full Shade (0.5%-HDPE)</b>	Excellent	<b>Light fastness 0.5:1.0 – pigment/TiO<sub>2</sub></b>	Excellent		

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

<b>RECOMMENDED APPLICATIONS FOR PLASTICS</b>			
<b>Fibres – polypropylene</b>	•	<b>Injection molding</b>	•
<b>Film</b>	•	<b>PVC wire and cable</b>	•
<b>Blow molding</b>	•	<b>Engineering resins</b>	■
• Recommended    ■ Limited Use    ○ Not Recommended			

<b>COMPLIANCE FOR PLASTICS</b>					
<b>EU APME:</b> AP(89)1	<b>European Toy Norm:</b> 71-3:1994	<b>Germany:</b> BfR Recommendation IX	<b>EU RoHS</b>	<b>USA-ASTM-Toys</b>	<b>CONEG</b>

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

<b>TECHNICAL SERVICE LAB APPROVAL</b>		
<b>QUALITY CONTROL LAB APPROVAL</b>		
<b>DATE OF ISSUE</b>	21 <sup>st</sup> December 2011	<b>PAGE 2 OF 2</b> Ver. # 4.0

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.