

# DCC YELLOW 2GTS

Green Shade Yellow Inorganic Bismuth Vanadate Pigment



Working Together for Quality®

## SPECIFICATIONS AND PROPERTIES

<b>DESCRIPTION</b>	
DCC Yellow 2GTS is a clean green shade yellow plastic grade pigment with high colour strength and saturation. DCC Yellow 2GTS is particularly suitable for use in polyamide and engineering plastics due to excellent heat stability.	

<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>Tint (PVC, K001)</b>	Strength 100 ± 5%
<b>Tint after adjusted strength (PVC, K001)</b>	Max. DE* 1.4, DL* ±0.8, DC* ±0.9, DH* ±0.6

<b>PHYSICAL PROPERTIES</b>	
<b>Specific gravity</b>	3.9 g/cm <sup>3</sup>
<b>Oil Absorption</b>	32 g/100g
<b>DOP- Oil Absorption</b>	34 g/100g
<b>Bulk density</b>	0.8 kg/L
<b>Bulk volume</b>	1.3 L/kg
<b>Specific surface area</b>	--

<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>PLASTICS SPECIFIC DATA</b>					
<b>Heat Stability (FS):</b> 285°C in HDPE, 5-minute dwell time / 320°C in PA, 5-minute dwell time This product contains chemically bonded water and at processing temperatures >100°C this water will be released up to maximum of 4.8%.					
<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>	4-5	<b>Weather fastness*) 0.5:1.0 – pigment/TiO<sub>2</sub></b>	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					

“Limited Use” for PVC because of water release, better choice is DCC Yellow 2GLMA

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<b>COMPLIANCE</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		