

DCC YELLOW 2GTI

Green Shade Yellow Inorganic Bismuth Vanadate Pigment



Working Together for Quality®

SPECIFICATIONS AND PROPERTIES

DESCRIPTION	
DCC Yellow 2GTI is a green shade yellow plastic grade pigment with excellent heat stability. DCC Yellow 2GTI has outstanding fastness properties and is used in many polymers including most demanding engineering plastics, where high temperature resistance up to 320°C is demanded. DCC Yellow 2GTI contains no boric acid.	

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 Tetraoxide

GENERAL SPECIFICATIONS	
Tint (PVC, DPV-011)	Strength 100 ±5%
Tint after Strength Adjustment (PVC, DPV-011)	Max. DE* 1.5, DL* ±0.8, DC* ±0.9, DH* ±0.8

PHYSICAL PROPERTIES	
Specific gravity	3.5 g/cm ³
Oil Absorption	30 g/100g
DOP- Oil Absorption	36 g/100g
Bulk density	0.54 kg/L
Bulk volume	1.3 L/kg
Specific surface area	---

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

PLASTICS SPECIFIC DATA					
Heat Stability:	>300°C in HDPE (1%), 5-minute dwell time / >320°C in PA (1%), 5-minute dwell time				
Storage:	open bags may attract moisture !				
Warp Resistance:	(1) No warping (HDPE – plate test) - (1) No warping (HDPE – disc test) (1 = none to minimal warpage, 2 = Some warpage, 3 = Not recommended)				
Weather fastness ^{*)} Full Shade (1.0% HDPE)	4-5	Weather fastness 0.5%:0.5% – pigment:TiO ₂	5	PVC Migration Resistance	Excellent
Light fastness Full Shade (1.0% HDPE)	Excellent	Light fastness 0.5%:0.5% – pigment:TiO ₂	Excellent		

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

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

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COMPLIANCE FOR PLASTICS

EU APME: AP(89)1	European Toy Norm: 71-3-1994	Germany: BfR Recommendation IX	EU RoHS	USA-ASTM-Toys	CONEG
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WORLDWIDE INVENTORIES REGISTRATION STATUS

Australia (AICS)	Registered	Canada (DSL)	Registered	China (IECSC)	Registered
Europe (EINECS)	Registered	Japan (ENCS)	Registered	Philippines (PICCS)	Registered
USA (TSCA)	Registered	New Zealand (NZIoC)	Registered	South Korea (KECI)	Registered

TECHNICAL SERVICE LAB APPROVAL

QUALITY CONTROL LAB APPROVAL

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