DCC ORANGE 1816

Blue Shade Dianisidine Orange Pigment

Working Together for Quality®

SPECIFICATIONS AND PROPERTIES

DESCRIPTION
DCC Orange 1816 is a blue shade pigment for use in plastics applications where very good heat stability and tinctorial strength are required. It can also be used as a lead free alternative to molybdate orange

Chemical Type/Common Name	Organic/ Dianisidine Orange
Colour Index: Generic Name	Pigment Orange 16
Colour Index: Constitution No.	21160
CAS Registry No.	6505-28-8
Chemical Name	Butanamide, 2, 2'- [3,3'-dimethoxy [1,1' -biphenyl] –4,4'-diyl) bis (azo)] bis [3-oxo-N-phenyl

SPECIFICATIONS		
Masstone Shade	Max. Delta E* 2.0 of Standard	(DCC TM 4229)
Tint Strength (apparent)	± 5% of Standard	(DCC TM 4229)
Shade & strength determinations are made with the aid of a MacBeth Colour Computer, under the following conditions: CIELAB, 10 degree observer, D65 light source, UV & gloss included.		
Note: Test Methods available from DCC on request.		

PHYSICAL PROPERTIES		
Specific Gravity	1.28 g/cc	(DCC TM 3101B)
Oil Absorption	30	(ASTM D-281-84- Fasig Method)
Moisture	2.0% max.	(ASTM D-280-81)
% Halogen Content	Halogen Free	

PROPERTIES			
MEK	Very Good	**Linseed oil**	Very Good
Wax (Paraffin)	Excellent	**Mineral Spirits**	Excellent
Water	Excellent	**Xylene**	Good
Dilute Acid	Excellent	**Dilute Alkali**	Very Good
Heat Stability:	Heat Stable to 240ºC (464ºF) in H.D.P.E., 5-minute dwell time, 1% pigmentation		
Warp Resistance:	3 (1 = Minimal Warpage, 2 = Some Warpage, 3 = Not Recommended)		
Weatherfastness Full Strength (Florida)	Fair	**Weatherfastness TiO_2 Tint (1:10) (Florida)**	Poor

RECOMMENDED APPLICATIONS			
Fibres – Polypropylene	○	**Injection Molding**	●
Film	●	**PVC Wire and Cable**	●
Blow Molding	●	**Engineering Resins**	○
● Frequently used	■ Limited Use	○ Not Normally Used	

COMPLIANCE						
USA: ASTM-Toys	**EU APME:** AP(89)1	**European Toy Norm:** 71-3-1994	**EU RoHS**	**Germany:** BfR	**CONEG**	**French Positive List**

WORLDWIDE INVENTORIES REGISTRATION STATUS					
Australia (AICS)	Registered	**Canada (DSL)**	Registered	**China**	Registered
Europe (EINECS)	Registered	**Japan**	Registered	**Philippines**	Registered
USA (TSCA)	Registered	**New Zealand**	Registered	**South Korea**	Registered

TECHNICAL SERVICE LAB APPROVAL			
QUALITY CONTROL LAB APPROVAL			
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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 his own laboratory.