

DCC BLUE A3R

Red Shade Blue



Working Together for Quality®

SPECIFICATIONS AND PROPERTIES

DESCRIPTION

DCC Blue A3R is a red shade, highly saturated blue that combines very good tinctorial properties with excellent fastness to light, weather, chemical and solvents. DCC Blue A3R is a highly transparent blue suitable for opaque and effect shades and is used in high-end coatings, plastics and ink applications.

Chemical Type/Common Name	Organic / Indanthrone
Colour Index: Generic Name	PB. 60 / Vat Blue 4
Colour Index: Constitution No.	69800
CAS Registry No.	81-77-6
EC No.	201-375-5
Chemical Name	5,9,14,18-Anthrazintetrone, 6, 15-dihydro-

GENERAL SPECIFICATIONS

Volatile content	1.0%
Conductivity	150 (µS/cm)
pH	5.5 – 8.5
Solvent resistance	>4
Masstone visual assessment –transparency (L003)	-2 (OP) / +2 (TR)
Tint	Strength 100 ± 8% Max. DE* 1.4, DL* ±0.7, DC* ±1.3, DH* ±0.8

PHYSICAL PROPERTIES

Specific gravity	1.46 g/cm ³
Oil absorption	37 g/100g
Specific surface area	32.7 m ² /g

PROPERTIES

Ethyl acetate	Very good - Excellent	Soap	Excellent
Acetone	Very good - Excellent	Toluene	Very good - Excellent
MEK	Very good - Excellent	Ethyl alcohol	Excellent
Wax (Paraffin)	Excellent	Mineral spirits	Excellent
DBP	Very good -Excellent	Naphtha	Excellent
Water	Excellent	Xylene	Excellent
Dilute acid	Excellent	Dilute alkali	Excellent

COATINGS SPECIFIC DATA

Heat Resistance:	150°C/30 minutes – Excellent	200°C/10 minutes – Excellent	
Over paint Bleed Resistance (130°C/30 minutes (N/C) - Excellent			
Weather fastness Masstone	5	Weather fastness 1:10 TiO₂ Tint	5
Light fastness Masstone	Excellent	Light fastness 1:10 TiO₂ Tint	Excellent

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

RECOMMENDED APPLICATIONS F COATINGS

Architectural Water & Universal	●	Coil Coatings	●
Architectural Solvent	●	Automotive Coatings	●
Industrial Fast Air Drying	●	Powder Coatings	●
Industrial Oven Cured	●		

● Recommended ■ Limited Use ○ Not Recommended

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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PLASTICS SPECIFIC DATA

Heat stability: Heat Stable to 300°C in HDPE, 5-minute dwell time					
Warp resistance: (3) high warpage (HDPE – plate test) - (2) some warpage- (HDPE – disc test) (1 = none to minimal warpage, 2 = Some warpage, 3 = Not recommended)					
Weather fastness Masstone (0.1%-HDPE)	Excellent	Weather fastness 0.1:1.0 – pigment/TiO₂	Excellent	PVC Migration Resistance Masstone and Tint (0.1%) - (0.2 pigment: 2.0 TiO₂)	Excellent
Light fastness Masstone (0.1%-HDPE)	Excellent	Light fastness 0.1:1.0 – pigment/TiO₂	Excellent		

RECOMMENDED APPLICATIONS FOR PLASTICS

Fibres – polypropylene	•	Injection molding	•
Film	•	PVC wire and cable	•
Blow molding	•	Engineering resins	•
• Recommended ■ Limited Use ○ Not Recommended			

COMPLIANCE

USA: ASTM-Toys	EU APME: AP(89)1	EU RoHS	Germany: BfR	CONEG	French Positive List	Australia Toys	Australia Food Contact
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INKS SPECIFIC DATA

Over lacquer resistance of litho prints – N/C (120°C/10 seconds) - Excellent			
Light fastness of Gravure Prints		Light fastness of Gravure Prints	
100% on paper	Excellent	100% on PVC	Excellent
75% on paper	Excellent	75% on PVC	Excellent
50% on paper	Excellent	50% on PVC	Excellent

RECOMMENDED APPLICATIONS FOR INKS

Solvent Based Nitrocellulose Ink: alcohol rich	•	Solvent Based Polyurethane Ink	•
Solvent Based Nitrocellulose Ink: ester rich	•	Waterbased Inks	•
Solvent Based Polyamide Ink	•	Lithographic Inks	•
UV Flexographic	•	UV Lithographic	•
• Recommended ■ Limited Use ○ Not Recommended			

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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