

# DCC YELLOW 1242

Yellow HR



Working Together for Quality®

## SPECIFICATIONS AND PROPERTIES

Chemical Type ----- Butanamide, 2,2'-[(3,3'-dichloro[1,1'-  
biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-  
chloro-2,5-dimethoxyphenyl)-3-oxo-  
Colour Index Name ----- Pigment Yellow 83  
CAS No. ----- 5567-15-7  
Physical Form ----- Yellow Powder

### SPECIFICATIONS:

	<u>LIMITS</u>	<u>TEST METHODS</u>
Masstone Shade -----	Max. Delta E* 2.0 of Std.	DCC TM 0001 (1)
Tint Strength (apparent) --	+ 5% of Std.	DCC TM 0001 (1)

### GENERAL DATA (TYPICAL VALUES):

Specific Gravity ----- 1.39 g/cc ----- DCC TM 3101B (1)  
Oil Absorption ----- 44 ----- ASTM D-281-84 (Fasig Method)  
Moisture ----- <2.0% ----- ASTM D-280-81

(1) Test Methods available from DCC on request.

### PROPERTIES:

#### BLEED RESISTANCE

Ethyl Acetate --- Very Good  
Ethyl Alcohol --- Very Good  
Cellosolve ----- Very Good  
D.B.P. ----- Very Good  
Glycol ----- Excellent  
Linseed Oil ----- Very Good  
MEK ----- Very Good  
Mineral Spirits - Very Good  
Water (cold) ---- Excellent  
Wax (Paraffin) -- Excellent  
Xylene ----- Good

#### LIGHTFASTNESS - INK (72 hr. F/O)

Full Strength --- N/A  
TiO<sub>2</sub> Tint (1:10)-- N/A

#### WEATHERFASTNESS - PAINT (W/O or Florida)

Full Strength ----- Good  
TiO<sub>2</sub> Tint (1:10)---- Fair

#### CHEMICAL RESISTANCE

Dilute Acid ----- Very Good  
Dilute Alkali ----- Very Good  
Soap ----- Excellent

#### HEAT RESISTANCE

120°C/30 minutes --Ink--- Very Good  
120°C/45 minutes --Paint- Very Good  
150°C/20 minutes --Paint- Good  
165°C/15 minutes --Paint- Good

#### HEAT STABILITY (H.D.P.E.)\*

Heat stable to 220°C+ (428°F+),  
5-minute dwell time, 1% pigment.

#### LITHOGRAPHIC PERFORMANCE

Aqueous ----- Very Good  
Alcoholic ----- Very Good

F/O = Fade-o-meter

W/O = Weather-o-meter

### SPECIAL COMMENTS:

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.

\* At temperatures above 200°C, when incorporated in polymers, the pigment can be decomposed to form trace amounts of coloured azo dyes which can decompose further to form measurable amounts of 3,3' dichlorobenzidine, which is a suspect human carcinogen.

TECHNICAL SERVICE LAB

APPROVAL: \_\_\_\_\_

QUALITY CONTROL LAB

APPROVAL: \_\_\_\_\_

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