# DCC YELLOW 1245

## Red Shade Yellow Pigment

## SPECIFICATIONS AND PROPERTIES

### DESCRIPTION

DCC Yellow 1245 is a semi-opaque red shade yellow pigment used in coatings, inks and plastics.

<table>
<thead>
<tr>
<th>Chemical Type/Common Name</th>
<th>Organic / Diarylide Yellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour Index: Generic Name</td>
<td>Pigment Yellow 83</td>
</tr>
<tr>
<td>Colour Index: Constitution No.</td>
<td>21108</td>
</tr>
<tr>
<td>CAS Registry No. / EINECS No.</td>
<td>5567-15-7/226-939-8</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Butanamide, 2, 2'-(3,3'-dichloro [1, 1' -biphenyl] -4,4'diyl) bis (azo) bis [N- (4-chloro-2, 5-dimethoxyphenyl)-3-oxo</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Masstone Shade</th>
<th>Max. Delta E* 2.0 of Standard (DCC TM 1224)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tint Strength (apparent)</td>
<td>± 5% of Standard (DCC TM 1224)</td>
</tr>
</tbody>
</table>

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Specific Gravity</th>
<th>1.39 (DCC TM 3101B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Absorption</td>
<td>44 (ASTM D-281-84- Fasig Method)</td>
</tr>
<tr>
<td>Moisture</td>
<td>&lt;2.0% max. (ASTM D-280-81)</td>
</tr>
</tbody>
</table>

### GENERAL PROPERTIES

| MEK | Very Good | Linseed oil | Very Good |
| Ethyl Acetate | Very Good | Propylene Glycol | Excellent |
| Wax (Paraffin) | Excellent | Mineral Spirits | Very Good |
| Water | Excellent | Xylene | Good |
| Dilute Acid | Very Good | Dilute Alkali | Very Good |
| Weatherfastness (1) | 3 Weatherfastness (1) | TiO2 Tint (1:10) | 1 |
| Full Strength | | |
| Lightfastness (2) | 7 Lightfastness (2) | TiO2 Tint (1:10) | 6 |
| Full Strength | | |

(1) Assessment was made using the ISO Grey Scale R105 A02 (1 = severe change, 5 = no change)
(2) Assessment was made using the Blue Wool Scale (1 = very poor, 8 = outstanding)

### PLASTICS SPECIFIC DATA

<table>
<thead>
<tr>
<th>Heat Stability:</th>
<th>Heat Stable to 200°C (392°F) in H.D.P.E., 5-minute dwell time (see note below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warp Resistance:</td>
<td>3 (1 = Minimal Warpage, 2 = Some Warpage, 3 = Not Recommended)</td>
</tr>
</tbody>
</table>

**Note:** 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.

### RECOMMENDED APPLICATIONS FOR PLASTICS

<table>
<thead>
<tr>
<th>Fibres – polypropylene</th>
<th>○ Injection molding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film</td>
<td>■ PVC Wire and Cable</td>
</tr>
<tr>
<td>Blow molding</td>
<td>■ Engineering Resins</td>
</tr>
</tbody>
</table>

○ Frequently used ■ Limited Use ○ Not Normally Used

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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 their own laboratory.
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Red Shade Yellow Pigment

SPECIFICATIONS AND PROPERTIES

<table>
<thead>
<tr>
<th>COATINGS SPECIFIC DATA</th>
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<tbody>
<tr>
<td>Heat Resistance: 200°C/10 minutes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RECOMMENDED APPLICATIONS FOR COATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Water &amp; Universal</td>
</tr>
<tr>
<td>Architectural Solvent</td>
</tr>
<tr>
<td>Industrial Fast Air Drying</td>
</tr>
<tr>
<td>Industrial Oven Cured</td>
</tr>
<tr>
<td>● Frequently used</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WORLDWIDE INVENTORIES REGISTRATION STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia (AICS)</td>
</tr>
<tr>
<td>Europe (ELINCS)</td>
</tr>
<tr>
<td>USA (TSCA)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICAL SERVICE LAB APPROVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUALITY CONTROL LAB APPROVAL</td>
</tr>
<tr>
<td>DATE OF ISSUE</td>
</tr>
</tbody>
</table>

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Ver. # 5.0