# DCL Blue 60 A3R

**Description:** A3R is a red shade, highly saturated blue that combines very good tinctorial properties with excellent fastness properties. 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** | Indanthrone | **Constitution No.** | 69800 |
| **Color Index** | PB60 / Vat Blue 4 | **CAS No.** | 81-77-6 |

## Resistance Properties

| | | | |
|---|---|---|---|
| **MEK** | 4 - 5 | **Ethanol** | 5 |
| **Water** | 5 | **Ethyl Acetate** | 4 - 5 |
| **Mineral Spirits** | 5 | **Acid** | 5 |
| **Xylene** | 5 | **Alkali** | 5 |

Legend: 1=Poor, 2=Fair, 3=Good, 4=Very good, 5=Excellent

## Product Characteristics

| | | | |
|---|---|---|---|
| **Migration (1-5)** | 5 | **Lightfastness (1-8): Masstone** | 8 |
| **Heat Stability (°C/°F)** | 200 °C (Paints)<br>300°C (HDPE) | **Lightfastness (1-8): Tint 1:10** | 8 |
| **Warpage Rating (1-3) * Plastic Only** | 2 | **Weatherfastness (1-5): Masstone** | 5 |
| **Overpaint Resistance * Paints Only** | 5 | **Weatherfastness (1-5): Tint 1:10** | 5 |

Warpage: 1 = minimal, 2 = some, 3 = severe  Weatherfastness: 1=Poor, 2=Fair, 3=Good, 4=Very Good, 5=Excellent  Lightfastness: 1-2=Poor, 3-4=Fair, 5=Good, 6-7=Very Good, 8=Excellent

## Physical Properties

| | | | |
|---|---|---|---|
| **Particle Size (µm)** | | **pH** | 5.5 - 8.5 |
| **Specific Surface Area ($m^2/g$)** | 32.7 | **Specific Gravity** | 1.5 |
| **Oil Absorption (g/100g)** | 37 | **Bulk Density (kg/L)** | |
| **Moisture Content (%)** | <1.0 | **Bulk Volume (L/kg)** | |

## Applications

| Plastics | | Coatings | | Inks | | Other | |
|---|---|---|---|---|---|---|---|
| **PVC** | ■ | **Decorative** | ☐ | **Water Flexo** | ◘ | **Paper** | ☐ |
| **PE** | ■ | **Automotive/Aerospace** | ■ | **Solvent Flexo** | ■ | **Rubber** | ☐ |
| **PP** | ■ | **Industrial** | ■ | **InkJet** | ■ | **Finger Paints** | ☐ |
| **PS** | ■ | **Powder** | ■ | **UV** | ■ | **Seed Coatings** | ☐ |
| **PET** | ■ | | | **Offset** | ◘ | **Cementitious** | ☐ |
| **Fiber** | ☐ | | | | | | |

☐ Not Frequently Used  ◘ Limited  ■ Recommended

**Comments:**

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Version 2. Jun 2026