



2180 Benzimidazolone Yellow 180

Description: 2180 is a non-warping green shade yellow with excellent heat stability recommended for plastics applications. FDA approved (Section 178.3297).

| | | | |
|----------------------|------------------------|-------------------------|------------|
| Chemical Type | Benzimidazolone Yellow | Constitution No. | 21290 |
| Color Index | Pigment Yellow 180 | CAS No. | 77804-81-0 |

Resistance Properties

| | | | |
|------------------------|-------|----------------------|-------|
| MEK | | Ethanol | 4 |
| Water | 5 | Ethyl Acetate | 4 - 5 |
| Mineral Spirits | 4 - 5 | Acid | 5 |
| Xylene | 4 - 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 | 6 - 7 |
| Heat Stability (°C/°F) | 280°C (HDPE) | Lightfastness (1-8): Tint 1:10 | 6 - 7 |
| Warpage Rating (1-3) * Plastic Only | 1 | Weatherfastness (1-5): Masstone | |
| Overpaint Resistance * Paints Only | | Weatherfastness (1-5): Tint 1:10 | |

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 - 7.5 |
| Specific Surface Area (m²/g) | | Specific Gravity | 1.4 |
| Oil Absorption (g/100g) | | Bulk Density (kg/L) | |
| Moisture Content (%) | < 2.0% | Bulk Volume (L/kg) | |

Applications

| Plastics | | Coatings | | Inks | | Other | |
|----------|-------------------------------------|----------------------|-------------------------------------|---------------|--------------------------|---------------|---|
| PVC | ■ | Decorative | <input type="checkbox"/> | Water Flexo | <input type="checkbox"/> | Paper | |
| PE | ■ | Automotive/Aerospace | <input type="checkbox"/> | Solvent Flexo | <input type="checkbox"/> | Rubber | ■ |
| PP | ■ | Industrial | <input checked="" type="checkbox"/> | InkJet | ■ | Finger Paints | |
| PS | ■ | Powder | <input checked="" type="checkbox"/> | UV | ■ | Seed Coatings | |
| PET | <input checked="" type="checkbox"/> | | | Offset | <input type="checkbox"/> | | |
| Fiber | ■ | | | | | | |

Not Frequently Used Limited Recommended

Comments:

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