

Pigment YELLOW SY-268

1. Product Information

Colour Index No.: C.I. PO34

Chemical Name: Benzimidazolone Orange

Chemical Class: Monoazo Pigment (Benzimidazolone)

CAS No.: [15793-73-4]

EINECS No.: 239-898-9

Molecular Formula: C₂₂H₁₈ N₆ O₅

Typical Structure: High-performance benzimidazolone-based monoazo pigment

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Bright reddish-orange powder
Hue	Reddish orange
Density (g/cm³)	Approx. 1.5 - 1.7
Oil Absorption (g/100g)	Approx. 45 - 65
pH Value (10% slurry)	6.5 - 8.0
Lightfastness (1-8)	7-8 (Excellent)
Heat Resistance (°C)	220 - 240
Water Resistance (1-5)	5 (Excellent)
Oil Resistance (1-5)	5 (Excellent)

Property	Specification / Description
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Acid Resistance (1-5)	4-5 (Good to Excellent)
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Alkali Resistance (1-5)	4 (Good)
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(Note: 1=Poor, 5=Excellent; Actual performance depends on application media and processing conditions)

3. Application Characteristics

Primary Applications:

Plastics Coloring: Excellent performance in **engineering plastics** (ABS, PC, PS, PMMA), **polyolefins** (PP, PE), and **PVC**

Coatings: High-quality **industrial coatings**, **automotive coatings**, and **powder coatings**

Printing Inks: Used in high-performance printing inks requiring excellent fastness properties

Artistic Colors: High-grade artists' paints

Key Advantages:

Excellent heat resistance

Very good lightfastness and weather resistance

Good chemical resistance

Good migration fastness

Suitable for high-temperature processing

Bright and clean shade