

Pigment YELLOW SY-262

1. Product Information

Colour Index No.: C.I. PY170

Chemical Name: Benzimidazolone Monoazo Yellow

Chemical Class: Monoazo Pigment (Benzimidazolone)

CAS No.: [31775-20-9]

EINECS No.: 250-793-6

Molecular Formula: C₂₇ H₂₆ N₆ O₅

Typical Structure: High-performance benzimidazolone-based monoazo pigment

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Reddish-yellow powder
Hue	Reddish yellow
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)	240 - 260

Property	Specification / Description
Water Resistance (1-5)	5 (Excellent)
Oil Resistance (1-5)	5 (Excellent)
Acid Resistance (1-5)	4-5 (Good to Excellent)
Alkali Resistance (1-5)	4 (Good)

(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

