

Pigment YELLOW SY-255

1. Product Information

Product Name: Pigment Yellow 55

Colour Index No.: C.I. PY55

Chemical Name: 5-Acetoacetylamino-benzimidazolone-based monoazo pigment

Chemical Class: Monoazo Pigment (Benzimidazolone)

CAS No.: [6358-37-2]

EINECS No.: 228-786-2

Molecular Formula: C₁₈ H₁₄N₆ O₄

Typical Structure: Benzimidazolone-based monoazo pigment

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Greenish-yellow powder
Hue	Greenish 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 (Very Good to Excellent)
Heat Resistance (°C)	200 - 220
Water Resistance (1-5)	5 (Excellent)
Oil Resistance (1-5)	5 (Excellent)

Property	Specification / Description
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), **polyolefins** (PP, PE), and **PVC**

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

Printing Inks: Used in high-performance printing inks requiring good 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