

Pigment BLUE SY-271

1. Product Information

Colour Index No.: C.I. PB16

Chemical Name: Non-metallized Phthalocyanine Blue

Chemical Class: Phthalocyanine

CAS No.: [574-93-6]

EINECS No.: 209-378-3

Molecular Formula: C₃₂H₁₈ N₈

Typical Structure: Metal-free phthalocyanine

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Dark blue powder
Hue	Greenish blue
Density (g/cm³)	Approx. 1.40 - 1.55
Oil Absorption (g/100g)	Approx. 40 - 50
pH Value (10% slurry)	6.0 - 8.0
Lightfastness (1-8)	7-8 (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 (Good)
Alkali Resistance (1-5)	4 (Good)

(Note: 1=Poor, 5=Excellent; Actual performance depends on application conditions)

3. Application Characteristics

Primary Applications:

Printing Inks: Specialty printing inks where metal-free composition is required

Coatings: High-performance coatings requiring excellent color properties

Plastics: Engineering plastics and high-temperature polymers

Specialty Applications: Electronic materials, optical applications, and research purposes

Key Advantages:

Metal-free phthalocyanine structure

Excellent lightfastness

Good heat resistance

High tinting strength

Good chemical resistance

Environmentally friendly composition