

Pigment RED SY-210

1. Product Identification

CI Number: CI 12355

Chemical Class: Azo Condensation (Benzimidazolone)

Common Names: Red BLC, Permanent Carmine FBB

2. Typical Properties

Property	Typical Value / Description	Standard / Method
Color Index Name	Pigment Red 23	---
Color Index Number	12355	---
Appearance	Red Powder	Visual
Hue	Bluish Red, Carmine	Visual Comparison
Density	~1.45 g/cm ³	ISO 787-10
Oil Absorption	45-55 g/100g	ASTM D281
Particle Size	~0.1 - 0.5 μm (average)	Laser Diffraction
Bulk Density	~0.25 kg/l	---
Specific Surface Area	~25 m ² /g	BET Method

3. Application Properties

Property	Performance & Recommendation
Lightfastness/Durability	Good to Very Good (Depending on the application medium and pigment concentration. Excellent in full shades.)
Weather Fastness	Moderate to Good (Suitable for many industrial and architectural applications, but not recommended for high-performance automotive coatings.)
Heat Stability	Up to 180-200°C (Suitable for most plastics processing, such as PVC, LDPE, and polyolefins.)
Migration Resistance	Excellent (Due to its benzimidazolone group, it shows very low bleeding in plastics.)
Chemical Resistance	Good resistance to acids and alkalis. May have limited resistance to solvents.
Dispersibility	Good. Can be easily dispersed in most common grinding equipment.

4. Recommended Applications:

Plastics: Excellent for coloring PVC, LDPE, PP, PS, and rubber.

Coatings: Used in industrial paints, architectural paints, and printing inks.

Printing Inks: Especially in offset, flexographic, and gravure inks.

Office & Artist Supplies: Used in water-based markers, colored pencils, and acrylic paints.

