

Pigment RED SY-203

1. TYPICAL PROPERTIES

Property	Typical Value / Description
Color / Shade	Bright medium red, bluish red (magenta)
Density (at 20°C)	~ 1.45 - 1.55 g/cm ³
Oil Absorption	~ 40 - 60 g/100g
Specific Surface Area	Medium
Lightfastness (1:1 SD)	Moderate (4-5 on Blue Scale). Significant fading in deep reductions (1:5 SD).
Weatherfastness	Poor to Moderate. Not recommended for long-term exterior exposure.
Heat Stability	Moderate (~ 160 - 180 °C). Not suitable for high-temperature engineering plastics.
Migration Resistance	Good in most polymer systems.
Solvent Resistance	Moderate. May show slight bleeding in strong polar solvents.
Acid/Alkali Resistance	Resistant to weak acids and weak alkalis. Unstable in strong alkaline conditions.
Opacity / Transparency	Semi-transparent to Semi-opaque

(Note: SD = Standard Depth)

2. APPLICATIONS

Pigment Red 8 is a classic, cost-effective organic red pigment widely used in general industrial applications where the highest durability is not required.

Paints & Coatings: Air-drying alkyd paints, emulsion paints (latex), and indoor decorative coatings. Not recommended for high-performance industrial or automotive coatings.

Plastics: Coloring of PVC, LDPE, PU, and other polymers with processing temperatures within its stability range.

Inks: Flexographic inks, gravure inks, and inks for stationery and office supplies.

Others: Artists' colors, colored pencils, wax crayons, and other general industrial coloring.

3. ADVANTAGES & LIMITATIONS

Advantages:

Bright and intense color hue.

Excellent cost-performance ratio.

High tinting strength.

Good dispersibility in most common media.

Limitations:

Moderate lightfastness and weatherability, especially in tints.

Limited heat resistance.

Not suitable for applications requiring high chemical or solvent resistance.

