

JTR-509

Product Information

Product Description

JTR-509 is a rutile titanium dioxide pigment specifically designed for plastic applications. It exhibits high whiteness, a strong blue undertone, and excellent hiding power. Its special surface treatment ensures low moisture absorption, extremely low volatile content at high temperatures, low oil absorption, outstanding dispersibility and excellent processing flowability in plastic applications.

Table 1

Analysis and Physical Properties of JTR-509

Property	Value
TiO ₂ , wt%	≥97.0
Alumina, wt%	1.0
Specific Gravity	4.1
Bulking Value, L/kg (gal/lb)	0.25 (0.03)
Organic Treatment	Yes
Color CIE L*	98.2
Median Particle Size, μm	0.28
Oil Absorption	14.5
pH	6.5-8.5
Carbon Black Undertone	16-18

Note: All values are typical unless otherwise specified

Key Features

- Excellent whiteness and bluish undertone
- Excellent processing performance
- Excellent high temperature resistance
- High hiding power

Suggestions for Use

The properties of JTR-509 are especially valuable where high concentrations of pigment are desired in thermoplastic masterbatches and where minimal effect is desired on melt flow.

- Thermoplastic Masterbatch
- High-concentration PE/PP Masterbatch
- Masterbatches for ABS, PET, and other polymers

High hiding power

JTR-509, through precise particle size control and a special organic processing technology, possesses excellent opacity in injection molding and film production.

Excellent melt fluidity

Melt flow rate is an important reference for selecting plastic processing materials and grades. It enables the selected raw materials to better meet the requirements of processing technologies and improve the production efficiency of downstream products.

Shipping Containers

JTR-509 is available in 25 kg paper bag and 1 metric ton big bag.

Product Storage

The shelf life of JTR-509 is indefinite as long as the material is kept from direct contact with moisture.

For further information about this grade or to request a sample, please see the JIUTA website.