

JTCR-505

Product Information

Product Description

JTCR-505 is a multi-purpose rutile titanium dioxide produced by chloride process. It is specially designed for outdoor plastic applications. It has middle color tone and good hiding power which make color mixing easy. Silicon coating technology minimizes the interaction of the titanium dioxide surface with other materials in the plastic matrix.

Table 1

Analysis and Physical Properties of JTCR-505

Property	Value
TiO ₂ , wt%	≥92.0
Rutile conversion rate %	99.8
Alumina, wt%	3.5
Silica, wt%	4.2
Specific Gravity	4.0
Bulking Value, L/kg (gal/lb)	0.25 (0.03)
Organic Treatment	Yes
Color CIE L*	99.1
Median Particle Size, μm	0.34
Oil Absorption	16.5
pH	6.5-8.5
Carbon Black Undertone	15.0

Note: All values are typical unless otherwise specified

Key Features

- High durability
- Resistance to discoloration
- Good fluidity

Suggestions for Use

- Outdoor plastic application
- Film which needs weather-resistant ability

High durability

In order to improve the durability, JTCR-505 use optimized SiO₂ coating process technology. The SiO₂ provides a uniform and complete coating to the titanium dioxide surface, which can act as a barrier to protect the titanium dioxide surface from reacting with polymers or additives.

Resistance to discoloration

The various surface treatments used in JTCR-505 provide excellent resistance to photochromic effects. JTCR-505 minimizes lead-induced graying in PVC systems and phenol-induced yellowing in polyethylene systems.

Good fluidity

The surface treatment of JTCR-505 allows it to be used in bulk shipping and conveyor systems. A combination of inorganic and organic surface treatments optimize the flow of JTCR-505.

Shipping Containers

JTCR-505 is available in 25 kg paper/PE bag and 1 metric ton big bag.

Product Storage

The shelf life of JTCR-505 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.