

JTCR-530

Product Information

Product Description

JTCR-530, a rutile titanium dioxide pigment, is produced by advanced chloride process and treated with special organics and inorganics. With excellent yellowing resistance and polyester system degradation resistance, high hiding power, good dispersion, and excellent dry powder fluidity, it is dedicated to Polycarbonate (PC).

Table 1
Analysis and Physical Properties of JTCR-530

Property	Value
TiO ₂ , wt%	≥ 96
Rutile ratio	≥ 99.5%
Surface treatment	Aluminium compounds, Organics
L*	≥ 98.2
b*	1.6 ~ 2.0
CBU	≥14
Oil absorption (g / 100 g)	≤14.0
105°C volatile	≤0.1%
Resistivity (Ω.m)	≥100

Note: All values are typical unless otherwise specified

Key Features

- Strong resistance to polycarbonate degradation due to TiO₂ adding
- Excellent high-temperature yellowing resistance
- Bluish undertone
- High hiding power and high tinctorial strength
- Excellent processing performance

Suggestions for Use

- PC material field (highly recommended);
- PC masterbatch (highly recommended);
- PET, PA, ABS and other engineering plastics;
- Other high-temperature plastics processing (> 250 °C) field.

Excellent high-temperature yellowing resistance

The special surface treatment process makes the product have excellent yellowing resistance and anti-polyester system degradation ability.

Strong resistance to polycarbonate degradation

The surface of unmodified TiO₂ is covered with a large number of hydroxyl groups, which can easily react chemically with the ester groups (-COO-) on the PC main chain at high temperatures, eventually leading to thermal degradation of PC and worsening the melt properties of TiO₂/PC. , difficult to process and shape. After modifying TiO₂ with a special organic coating agent, the hydroxyl groups on the surface of TiO₂ are effectively prevented from direct contact with the PC molecular chain, and the thermal degradation of TiO₂/PC is improved.

Shipping Containers

JTCR-530 is available in 25 kg paper bag.

Product Storage

The shelf life of JTCR-530 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 web site.