

MHK Color

Technical Data Sheet (TDS)

White Masterbatch

Product Name	White Masterbatch
Product Code	MHK-WT-001
Manufacturer	MHK Color - Foshan, Guangdong, China
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Product Description

Premium TiO₂-based white masterbatch for high opacity, brightness, and weather resistance. Features rutile TiO₂ with optimized surface coating for excellent dispersion.

Technical Specifications

Appearance	White uniform pellets
Active Content	Rutile TiO ₂ 40-75%
Carrier Resin	PE / PP
Pigment/Active	Titanium Dioxide, Rutile (CI PW 6)
Melt Flow Index	8-20 g/10min (190°C/2.16kg)
Density	1.25-1.80 g/cm ³
Moisture Content	≤ 0.2%
Dispersion Quality	< 5 µm (excellent)
Particle/Pellet Size	3-4 mm pellets

Application Guidelines

Recommended Loading	1-5% depending on application
Processing Temperature	160-260°C
Compatible Polymers	PE / PP

Processing Instructions

- Pre-dry pellets if moisture content exceeds 0.3% (except desiccant grades).
- Ensure uniform feeding by using appropriate dosing equipment.
- Avoid excessive processing temperatures beyond the recommended range.
- For optimal dispersion, use a screw speed that provides adequate shear without degrading pigments.
- Clean processing equipment thoroughly when changing colors to prevent contamination.

Packaging & Storage

Packaging	25 kg woven bags with PE liner / 500 kg FIBC
Shelf Life	24 months in original sealed packaging
Storage Conditions	Store in cool, dry place. Protect from moisture and direct sunlight.

Regulatory Compliance

FDA 21 CFR 178.3297 and EU 10/2011 compliant grades available

Disclaimer: The information provided in this Technical Data Sheet is based on our current knowledge and typical production data. Actual values may vary by batch and specific formulation. Users should verify suitability for their specific application. MHK Color reserves the right to update specifications without prior notice. Contact our technical team for detailed test reports.

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