

MHK Color

Technical Data Sheet (TDS)

Functional Additive Masterbatch

Product Name	Functional Additive Masterbatch
Product Code	MHK-AD-001
Manufacturer	MHK Color - Foshan, Guangdong, China
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Product Description

Functional additive masterbatch including antistatic, desiccant, UV stabilizer, slip/antiblock, and laser marking grades for modifying plastic properties beyond coloring.

Technical Specifications

Appearance	Natural or tinted pellets
Active Content	Active ingredient 10-70%
Carrier Resin	Polymer-specific (PE/PP/ABS/etc.)
Pigment/Active	Various active additives (CaO/HALS/UVA/Antistatic/etc.)
Melt Flow Index	5-25 g/10min (190°C/2.16kg)
Density	1.10-1.60 g/cm ³
Moisture Content	≤ 0.3% (desiccant grades ≤ 0.1%)
Dispersion Quality	< 5 μm (excellent)
Particle/Pellet Size	3-4 mm pellets

Application Guidelines

Recommended Loading	0.5-5% depending on additive type
Processing Temperature	160-280°C
Compatible Polymers	Polymer-specific (PE/PP/ABS/etc.)

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	18-24 months in original sealed packaging
Storage Conditions	Store in cool, dry place. Desiccant grades require sealed moisture-barrier packaging.

Regulatory Compliance

FDA compliant grades available for selected additives

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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