GRAFT POLYMER
COMBINE INCOMPATIBLE

TDS | Technical Data Sheet

GRAFTABOND™ UHP 00030M C | Compatibilizer

Product Description

GRAFTABOND™ UHP 00030M C is an ultra-high-molecular-weight polyethylene (UHMWPE) powder highly functionalized with maleic anhydride, used as a compatibilizer for polyamide/polyethylene blends. Made by solid-phase grafting: the monomer is grafted onto the polymer powder below its melting point.

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Physical Form	powder	
Bound MAH	1.8–2.5 wt %	FTIR (Internal Method)
Moisture (loss on drying) 105 °C	< 0.5 %	ASTM D6980

Applications

Compatibilizer for polyamide/polyethylene blends: the anhydride reacts with polyamide amine end groups.

Compatibilizer and impact modifier in engineering-plastic composites, compounds and alloys.

Processing & Dosage

GRAFTABOND™ UHP 00030M C is processable on most thermoplastic processing equipment.

Preferred for: Extrusion (Compounding)

Typical dosage: 1–4 % (as supplied) of the total formulation, depending on the fibre content. These levels are for orientation only; the optimal content should be determined experimentally.

Storage and Transportation

MSDS provided to recommend safe practices during use and storage. Improper storage conditions may cause degradation and affect the product's physical properties. For easy handling and storage, it is normally packed in 25 kg bags (50 bags per pallet).

Store in the original packaging in a cool, dry, well-ventilated area, away from heat sources, moisture and direct sunlight.

Shelf Life

24 months from the date of delivery, in unopened packaging. For any use above this limit, please refer to our technical services.

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