GRAFT POLYMER
COMBINE INCOMPATIBLE

TDS | Technical Data Sheet

GRAFTABOND™ UHP 00050G | Compatibilizer

Product Description

GRAFTABOND™ UHP 00050G is an ultra-high-molecular-weight polyethylene (UHMWPE) powder grafted with glycidyl methacrylate (GMA), used as a compatibilizer and impact modifier for engineering polyesters and epoxy-based thermosets. 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 GMA	3–5 wt %	FTIR (Internal Method)
Moisture (loss on drying) 105 °C	< 0.5 %	ASTM D6980

Applications

Raises the impact strength of thermoplastic and thermosetting polyesters.

The epoxide groups react with the carboxyl end groups of polyesters.

Processing & Dosage

GRAFTABOND™ UHP 00050G is processable on most thermoplastic processing equipment.

Preferred for: Extrusion (Compounding)

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

Storage and Transportation

Store at no more than 35 °C and below 80 % relative humidity. Avoid direct sunlight and contact with water.

Normally packed in 25 kg bags (50 bags per pallet).

Shelf Life

12 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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