GRAFT POLYMER
COMBINE INCOMPATIBLE

TDS | Technical Data Sheet

GRAFTABOND™ UHP 00050S | Impact Modifier

Product Description

GRAFTABOND™ UHP 00050S is an ultra-high-molecular-weight polyethylene (UHMWPE) powder grafted with styrene–acrylonitrile (SAN). 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 SAN	4–5 wt % (*)	FTIR (Internal Method)
Moisture (loss on drying) 105 °C	< 0.5 %	ASTM D6980

(*) can be regulated to customer needs

Applications

Raises the impact strength of the base material.

Compatible with nitrile-containing polymers such as SAN and ABS.

Processing & Dosage

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

Preferred for: Extrusion (Compounding)

Typical dosage: 1–4 % (as supplied) of the total formulation; 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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