

Product Data Sheet

Lucofin® 1492M HG

Product description

Lucofin®1492M HG is a chemically modified polyethylene, i.e. EBA grafted with maleic anhydride (MA).

Product properties

Lucofin®1492M HG can be used pure or combined with other polymers where improved polarity is required.

Product advantages

- easy processing on standard processing equipment
- polarity and adhesion to various materials
- good compatibility and filler acceptance
- good mechanical properties
- environmentally sound

Applications

Due to the maleic anhydride content this grade offers excellent adhesion to polar materials and can be used - possibly in combination with Lucofin®1400HN or Lucofin®1400MN - to

- provide high filler loading, such as ATH (Aluminum tri hydrate) and MDH (Magnesium di hydrate) in HFFR compounds
- flexibilize and toughen (impact modification) otherwise brittle plastics (PA, PA/ABS, PBT, PET), including scrap/recycled material
- modify melt viscosity and therefore improve processability for PA
- compatibilize dissimilar polymer compounds, such as PA/PE and PE/PS

- improve bonding and strength in
 - wood-plastic composite WPC, such as PE, PP/ wood flour
 - polymer/fiber (glass fiber, natural fiber, long fiber, short fiber) compounds such as PP/long glass fibre
- in multilayer films/structures to act as a tie layer between dissimilar materials, such as polyolefins, PE copolymers, ionomers, polyamides, EVOH, polyesters, polycarbonates and aluminium ,e. g.:
 - PE / Lucofin®1492M HG / PA
 - PE / Lucofin®1492M HG / PET
 - PE / Lucofin®1492M HG / EVOH

Processing

Lucofin®1492M HG is suited for conventional standard processing equipment. We recommend the following standard values for extrusion

ca. 160° - 300°C

Storage and handling

Granules in 25 kg bags, pallet standard = 1.250 kg

Lucofin®1492M HG should be stored in dry conditions at a temperature below 40 °C and protected from UV-light. , otherwise the packaging should be damaged
Storage time longer than 6 months may have a negative influence on the processability of the product. We strongly recommend to convert the material latest within 6 months after delivery.

Use beyond the recommended shelf-life should be inspected according to quality assurance measures to ensure product performance.

Otherwise degradation may occur resulting in smell generation and colour changes

Typical properties*	Standard	Unit	Lucofin® 1492M HG
MFR (190 °C/2,16 kg)	ISO 1133	g/10 min	7,0
Grafting level Maleic anhydride	IR-spektroskopie	%	1,2

* These standard values are typical values and should not be regarded as specifications.

Note

The information provided in this document is based on our product tests and present technical knowledge. It does not release purchasers from the responsibility of carrying out their receiving inspections. Neither does it imply any binding assurance of suitability of our products for a particular purpose. As LUCOBIT cannot anticipate or control the many different conditions under which this product may be processed and used this information does not relieve processors from their own tests and investigations. Any proprietary rights as well as existing legislation shall be observed