

Product Data Sheet

Lucofin® 1492M

Product description

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

Product properties

Lucofin®1492M 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 / PA
 - PE / Lucofin®1492M / PET
 - PE / Lucofin®1492M / EVOH

Processing

Lucofin®1492M 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 should be stored in dry conditions at a temperature below 40 °C and protected from UV-light. , otherwise the packaging could 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
MFR (190 °C/2,16 kg)	ISO 1133	g/10 min	7,0
Grafting level Maleic anhydride	IR-spectroscopy	%	0,3
* These standard values are typical values and should not be regarded as specifications.			

Note
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