

Product Data Sheet

Lucofin®1492M HG

1. Product description

Lucofin®1492M HG is a chemically modified EBA (Polyethylen-n-butylacrylate) copolymer grafted with maleic anhydride (MAH).

2. Product properties

Lucofin®1492M HG exhibits boosted levels of polarity due to the MAH grafting in comparison to the base EBA copolymer. Thus, it is excellently suited for applications that require increased polarity levels.

3. Product advantages

- Simplified processing when used on standard processing equipment
- Improved adhesion to various materials
- Good compatibility to many additives
- Good filler acceptance
- environmentally friendly

4. Applications

Lucofin®1492M HG maleic anhydride modified EBA offers excellent adhesion to polar materials. It should be considered to be as is or in combination with Lucofin®1400HN or Lucofin®1400MN to

- enable high filler loading in HFFR (Halogen Free Flame Retardant) compounds e.g. ATH (Aluminum trihydrate) or MDH (Magnesium dehydrate)
- flexibilize and toughen (impact modification) otherwise brittle plastic materials (PA6, PA6.6, PBT, PET) including scrap/recycled materials
- modify melt viscosity and therefore improve processability for e.g. PA
- enable dissimilar polymer compatibility e.g. PA6/PE or PE/PS
- improve bonding and strength in
 - wood-plastic composite (WPC) materials
 - polymer/fiber blends e.g. glass fibers

5. Processing

Lucofin®1492M HG is suited for all conventional standard processing equipment. For extrusion, the following temperature range is recommended: approx. 160°C – 250 °C.

With respect to its organoleptic suitability, the end user must and/or let conduct respective and appropriate tests due to the fact that Lucofin® 1492M HG is to be regarded as not unproblematic.

6. Chemical Stability

Lucofin®1492M HG exhibits limited stability towards water and aqueous solutions, towards salts as well as diluted acids and bases. Lucofin®1492M HG may partially dissolve or swell in the presence of aliphatic, aromatic and halogen substituted hydrocarbons.

7. Packaging and Storage

Granules in 25 kg bags, standard pallets = 1.250 kg.

Lucofin®1492M HG should be stored under dry conditions at a temperature below 40°C and protected from UV-light. Otherwise the packaging could be damaged or degradation may occur resulting in odor generation and color changes

We strongly recommend to use the material latest within 6 months after delivery. Storage time in excess of 6 months may have a negative impact on the processability and should be inspected according to quality assurance measures to ensure product's performance

Unfavorable storage conditions may also contribute to intensify the slight but characteristic odor of the polymer. Furthermore, stacking of pallets should be avoided.

Typical Properties*	Standard	Unit	Lucofin® 1492M HG
MFI (190 °C/2,16 kg)	ISO 1133	g/10 min	1-5
Density	ISO 1183	g/cm ³	0,927
Grafting level - Maleic anhydride(bonded)	FTIR	wt.%	0.7-1.0

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

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