

Product Data Sheet Lucofin® 1400MN

Product description

Lucofin® 1400MN is a polar copolymer consisting of ethylene and butyl acrylate with low crystallinity. Due to its chemical structure Lucofin® 1400MN is softer and more flexible than ethylene homopolymeres with comparable density. Lucofin® 1400MN is supplied as uncoloured granules.

Product properties

Lucofin® 1400MN is used as component in multilayer film constructions or as a polymer modifier to improve splitting resistance, environmental stress crack resistance ESCR, resi- stance to low temperatures, weldability, and processability.

Product advantages

- easy processing on standard processing equipment
- flexibility
- impact strength at low temperatures (- 40 °C)
- thermal stability of polymer (no corrosive by products)
- good mechanical properties high end use temperature
- good compatibility and filler acceptance
- good organoleptics environmentally sound

Applications

Lucofin® 1400MN is used primarily for injection applications, but is also suited for extrusion purposes. In the field of film extrusion it is used for films in the construction and agricu- Itural industry, FFS bags, and also for food packaging appli- cations. Moreover, Lucofin® 1400MN is ideally suited as base resin for compounds or as an impact modifier for stiff poly- mers. Compounds based on Lucofin® 1400MN can be used for profile and cable extrusion purposes and for the production of sealing membranes. Furthermore it can be used for x-linked closed cellfoams.

Processing

Lucofin® 1400MN is suited for conventional standard proces- sing equipment. We recommend the following standard va- lues for extrusion:

Profiles and hoses:	approx. 160° - 190 °C
Blow moulding:	approx. 160° - 190 °C
Blown films:	approx. 160° - 190 °C
Flatsheet composites:	approx. 160° - 230 °C
Coatings:	approx. 160° - 270 °C

For injection moulding Lucofin® 1400MN is processed at melt temperatures ranging from 180° -250 °C and mould temperatures from 10° - 40 °C.

Packaging

Granules in 25 kg bags, other packaging upon request. The product is also available as powder.

Chemical resistance

Lucofin® 1400MN is resistant to water and aqueous solutions, salt as well as to dilute acids and bases. When exposed to aliphatic, aromatic and halogen-substituted hydrocarbons Lucofin® 1400MN may swell or dissolve to a certain extent.



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	Standard	Unit	Standard value
Density (23 °C)	ISO 1183	g/cm³	0.924
MFR (190 °C/2.16 kg)	ISO 1183	g/10 min	7,0
Comonomer BA	DIN 51451	%	17
Melting temperature	ISO 3146	°C	95
Vicat softening temperature A/50	ISO 306	°C	60
Module of Elasticity (23 °C)	ISO 527	MPa	45
Yield strain	ISO 527	%	13
Yield stress	ISO 527	MPa	3,5
Shore hardness D	ISO 868	-	32
Shore hardness A	ISO 868	-	88

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