

Product Data Sheet Lucofin® 1400SL

Product description

Lucofin® 1400SL is a polar copolymer consisting of ethylene and butyl acrylate with low crystallinity. Due to its chemical structure Lucofin® 1400SL is softer and more flexible than ethylene homopolymers with comparable density. Lucofin® 1400SL is supplied as uncoloured granules. The product contains slip agent.

Product properties

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

Product advantages

- ▶ 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

Processing

Lucofin® 1400SL can be processed on conventional standard processing equipment. We recommend the following standard values for extrusion:

Profiles and hoses:	approx. 160° - 200 °C
Blow moulding:	approx. 160° - 200 °C
Blown films:	approx. 160° - 190 °C
Flat-sheet composites:	approx. 160° - 230 °C
Coatings:	approx. 160° - 270 °C

For injection moulding Lucofin® 1400SL 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.

Chemical resistance

Lucofin® 1400SL 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® 1400SL may swell or dissolve to a certain extent.

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Typical Properties			
	Standard	Unit	Standard value *)
Density (23 °C)	ISO 1183	g/cm ³	0.924
MFR (190 °C/2.16 kg)	ISO 1133	g/10min	1.4
Comonomer BA	DIN 51451	%	16
Melting temperature	ISO 6	°C	96
Vicat softening temperature A/50	ISO 306	°C	70
Module of Elasticity	ISO 527	MPa	62
Yield strain	ISO 527	%	14.5
Yield stress	ISO 527	MPa	4
Shore Hardness A	ISO 868	-	90

*) 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.