

Product Data Sheet

Lucofin® 1400SL

1. Product description

Lucofin®1400SL is a polar copolymer with low crystallinity consisting of ethylene and n-butyl acrylate.

Due to its chemical structure Lucofin®1400SL is softer and more flexible than ethylene homopolymers with comparable density. The product contains a slip agent. Lucofin®1400SL is supplied as non-colored granules.

2. Product properties

Lucofin®1400SL is used as Polymer modifier to improve cold impact properties, weldability and processability. The product contains lubricant and improves the sliding behavior against other materials as well as abrasion properties.

3. Product advantages

- High cold impact strength (- 40°C)
- thermal stability (no corrosive by products)
- good mechanical properties
- high processing temperatures possible
- good compatibility and filler acceptance
- improved sliding / abrasion properties

4. Applications

Lucofin®1400SL is used in applications that need improved sliding properties like gaskets for sealing bottles, Canisters and tanks. Moreover, Lucofin®1400SL is ideally suited as base resin for compounding and / or impact modifier with optimized sliding / abrasion properties.

5. Processing

Lucofin®1400SL is suited for conventional standard processing equipment. We recommend the following standard temperatures for extrusion

Profiles and hoses:	approx.. 160° - 200°C
Blow molding:	approx.. 160° - 200°C
Blown films	approx.. 160° - 190°C
Flat sheet composites:	approx.. 160° - 220°C
Coatings:	approx.. 160° - 270°C

For injection molding Lucofin®1400SL is processed at melt temperatures ranging from 180° - 250°C and mold temperatures from 10° - 40°C.

6. Chemical resistance

Lucofin®1400SL is resistant to water and aqueous solutions, to 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 some degree.

7. Packaging

Granules in 25 kg bags, standard pallet 1.250 kg.
Other packaging upon request.

8. Storage and Handling

Lucofin®1400SL 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

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Typical Properties* Lucofin®1400SL			
	Standard	Unit	Standard value *)
Density (23 °C)	ISO 1183	g/cm ³	0.92
MFR ⁱ (190 °C/2.16 kg)	ISO 1133	g/10min	1.4
Comonomer BA ⁱⁱ	DIN 51451	%	15
Melting temperature	ISO 3146	°C	96
Vicat softening temperature A/50	ISO 306	°C	70
Module of Elasticity	ISO 527	MPa	62
Yield strain	ISO 527	%	14
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.

ⁱ MFR – Melt Mass-Flow Rate

ⁱⁱ n-BA – n-Butyl-acrylate

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