

Lucofin® 1400SL

Ethylene Butyl Acrylate Copolymer

Lucobit AG

Message:

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.

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

General Information	
Additive	Slip
Features	Acid Resistant
	Base Resistant
	Copolymer
	Environmentally Sound
	Good Flexibility
	Good Organoleptic Properties
	Good Processability
	Good Thermal Stability
	High ESCR (Stress Crack Resist.)
	Low Temperature Impact Resistance
	Salt Water/Spray Resistant
	Slip
	Soft
	Weldable
Uses	Agricultural Applications
	Blow Molding Applications
	Coating Applications
	Film
	Plastics Modification
	Profiles
	Sheet

Appearance	Natural Color
Forms	Granules
Processing Method	Extrusion Blow Molding Film Extrusion Injection Molding Profile Extrusion Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.4	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	90		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	62.0	MPa	ISO 527-2
Tensile Stress (Yield)	4.00	MPa	ISO 527-2
Tensile Strain (Yield)	15	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	70.0	°C	ISO 306/A50
Melting Temperature (DSC)	96.0	°C	ISO 3146
Additional Information	Nominal Value	Unit	Test Method
Comonomer BA	16	%	DIN 51451
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 250	°C	
Mold Temperature	10.0 to 40.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 230	°C	

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