Lucofin® 1400MN

Ethylene Butyl Acrylate Copolymer

Lucobit AG

Message:

Lucofin 1400 MN is a polar copolymer consisting of ethylene and butyl acrylate with low crystallinity. Due to its chemical structure Lucofin 1400 MN is softer and more flexible than ethylene homopolymeres with comparable density. Lucofin 1400 MN is supplied as uncoloured granules.
Lucofin 1400MN is used as a component in multi-layer film constructions or as polymer modifier to improve splitting resistance, environmental stress crack resistance ESCR, resistance 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 utilization temperatures
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 agricultural industry, FFS bags, and also for food packaging applications. Moreover, Lucofin 1400MN is ideally suited as base resin for compounds or as an impact modifier for stiff polymers. 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.

General Information	
Features	Acid Resistant
	Base Resistant
	Copolymer
	Crosslinkable
	Environmentally Sound
	Foamable
	Good Flexibility
	Good Organoleptic Properties
	Good Processability
	High ESCR (Stress Crack Resist.)
	Low Temperature Impact Resistance
	Non-Corrosive
	Salt Water/Spray Resistant
	Soft
Uses	Agricultural Applications
	Bags
	Compounding
	Construction Applications
	Film
	Foam

	Food Packaging
	Membranes
	Plastics Modification
	Profiles
	Wire & Cable Applications

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

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A	88		
Shore D	32		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	45.0	MPa	ISO 527-2
Tensile Stress (Yield)	3.50	MPa	ISO 527-2
Tensile Strain (Yield)	13	%	ISO 527-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	60.0	°C	ISO 306/A50
Melting Temperature (DSC)	95.0	°C	ISO 3146
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Comonomer BA	17	%	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 190	°C	

Recommended distributors for this material

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