Lucofin® 1400HN Powder

Ethylene Butyl Acrylate Copolymer

Lucobit AG

Message:

Lucofin 1400 HN Powder is a polar copolymer consisting of ethylene and butyl acrylate with low crystallinity. Due to its chemical structure Lucofin 1400 HN Powder is softer and more flexible than ethylene homopolymeres with comparable density. Lucofin 1400 HN Powder is supplied as uncoloured and without additives granules.
Lucofin 1400HN Powder can be used for polymer modification and improve:
for compounds, the compatibility and absorptive capacity of minerals, fillers, pigments and additives
the heat resistance in bitumen, without negative influence on the cold flexibility
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
heat resistance
Applications
Lucofin 1400HN Powder can be used in the following applications:
as supporting material for compounds
for polymer modification of bitumen and asphalt
for powder coating

General Information	
Features	Acid Resistant
	Base Resistant
	Copolymer
	Environmentally Sound
	Good Flexibility
	Good Organoleptic Properties
	Good Thermal Stability
	High Heat Resistance
	Low Temperature Impact Resistance
	Salt Water/Spray Resistant
	Soft
Uses	Asphalt Modification
	Coating Applications
	Compounding
	Plastics Modification
Appearance	Natural Color
Forms	Powder
Processing Method	Compounding

Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.4	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance [1] (F0)	> 1000	hr	ASTM D1693
Particle Size	500	µm	ASTM D1921
Comonomer BA	16	%	DIN 51451
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A	90		
Shore D	34		
Ball Indentation Hardness (H 49/30)	8.00	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	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
NOTE			
1.	IEC 538		

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