

# Lucobit 1221

Polyethylene Copolymer

Lucobit AG

## Message:

Lucobit products are an extremely interesting and novel combination of proven materials used in the plastics processing industry. The material is black and consists of mixtures based on high quality polyethylene copolymers with varying additions of special and amorphous bitumen. Bitumen is integrated homogeneously in the polymer matrix and thus can be processed as free-flowing granules on conventional processing equipment. In the traditional application area "Sealing Membranes in Construction Building and Civil Engineering" Lucobit is well known as ECB (ethylene copolymer bitumen according to DIN 16729) and has proven to be a robust and reliable raw material for roofing and sealing membranes for the more than three decades. Lucobit combines the positive properties of polyolefins and bitumen. When adding Bitumen to Lucobit it serves as a plasticizer and as an internal lubricant. Lucobit displays superior tenacity, biaxial stretchability, and flexibility even at low temperatures. Special stabilization provides excellent resistance against heat aging and UV radiation. Lucobit is not only resistant to weathering and ageing to a large extent, but also displays superior thermal stability.

- Product advantages
- corrosion protection
- improved thermal insulation
- improved weathering resistance
- improved bonding and weldability with other materials
- broad usage temperature range, thermal stability
- increased filler acceptance
- improved compatibility
- shrinkage reduction
- improved environmental stress crack resistance
- anti-static effect
- 30 years of long-term experience with ECB in the sealing membrane application

## Applications

Whenever the benefits of bitumen as a raw material shall be proven in the world of plastics, free-flowing Lucobit granules can be the technological solution. The main application areas in the plastics industry are:

- roofing and sealing membranes for: tunnels, land-fills, water retention basins, dikes
- profiles, e.g. waterstops, connecting profiles, etc. for the construction sector
- films for construction and civil engineering, laminating films, multi-layer films
- polymer modification of bitumen; bitumen modification of polymers
- robust, long-life injection moulded parts in the construction area, such as castors, shingles, fittings, and feet.
- coatings as corrosion protection, e.g. for pipes, steel and water tanks
- cable protection
- vibration damping, e.g. with profiles/bandages

General Information	
Additive	Heat Stabilizer
	UV Stabilizer
Features	Antistatic
	Bondability
	Good Corrosion Resistance
	Good Flexibility
	Good Heat Aging Resistance
	Good Stretchability
	Good Thermal Stability
	Good UV Resistance
	Good Weather Resistance

High ESCR (Stress Crack Resist.)

Low Shrinkage

Low Temperature Flexibility

Self Lubricating

Thermally Insulating

Weldable

Uses	Asphalt Modification
	Cable Jacketing
	Coating Applications
	Construction Applications
	Film
	Laminates
	Membranes
	Plastics Modification
	Profiles
	Protective Coatings
	Sealing Devices
Appearance	Black
Forms	Granules
Processing Method	Extrusion
	Injection Molding
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	86		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	55.0	MPa	ISO 527-2
Additional Information	Nominal Value		Test Method
Low Temperature Flexibility	-25.0		DIN 53361

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