

# Lucofin® 1455MB

Polyolefin

Lucobit AG

## Message:

### Product description

Lucofin is a coloured, highly stabilized, bitumen-free TPO raw material based on polyolefins. The granules are available in the following standard colours:

Lucofin 1410MB - grey

Lucofin 1455MB - black

Lucofin 1410MB (52 %) or Lucofin 1455MB (52 %) are usually mixed with Lucofin 1400MN (48 %).

### Product properties

Lucofin products display excellent tear resistance, flexibility, and weathering resistance. Lucofin exhibits good toughness, superior biaxial stretchability, and flexibility even at low temperatures. It is insensitive to stress cracking and notch effects. Special stabilization provides good resistance to heat ageing and UV radiation. Lucofin is thus to a large extent resistant to weathering and ageing.

### Product advantages

easy processing on standard processing equipment

wide colour range

easy to weld (hot air/hot air wedge welding)

good mechanical properties

flexibility

ageing resistant

compatible with polyolefins and bitumen according to DIN 16726

environmentally sound

long-term experience

### Applications

Coloured Lucofin products are mainly used in construction, for instance, for TPO/FPO roofing and swimming pool membranes, profiles for the construction industry and as well as waterstops. Lucofin membranes and profiles can be welded safely and durably. Furthermore, Lucofin is suitable for the production of injection moulded parts in the building sector. In most cases it is necessary to choose the same raw material for parts, profiles and membranes due to the requirement of same colour and stabilization.

### Root resistance

Lucofin roofing and sealing membranes are resistant to penetration by roots according to DIN 16726 and FLL, and root resistant.

### Fire protection

Lucofin is categorized as building material class B2 and can be supplied as flame retardant version upon request.

### Chemical resistance

Lucofin is resistant to water and aqueous solutions, salt as well as to dilute acids and bases. When exposed to aliphatic, aromatic and halogen-substituted hydrocarbons Lucofin may swell or dissolve to a certain extent.

General Information	
Additive	Heat Stabilizer
	UV Stabilizer
Features	Acid Resistant
	Base Resistant
	Durable
	Environmentally Sound
	Good Flexibility
	Good Heat Aging Resistance
	Good Processability
	Good Stretchability
	Good Tear Strength
	Good Toughness

Good UV Resistance

Good Weather Resistance

Heat Stabilized

High ESCR (Stress Crack Resist.)

Low Temperature Flexibility

Salt Water/Spray Resistant

Weldable

Uses	Coating Applications
	Construction Applications
	Membranes
	Profiles
Agency Ratings	DIN 16726
Appearance	Black
Forms	Granules
Processing Method	Injection Molding
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 23°C)	90		ISO 868
Additional Information	Nominal Value	Unit	Test Method
Low Temperature Flexibility	< -45	°C	DIN 53361
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 to 220	°C	
Mold Temperature	10.0 to 40.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 240	°C	

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#### Recommended distributors for this material

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