

# Lucofin® 1451

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 colour: light blue

### 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.

### Processing

Lucofin products are suited for standard processing equipment used for thermoplastics. We recommend the following processing temperatures as standard values for extrusion.

Profiles: approx. 150° - 180 °C

Membranes/ flat-sheet composites: approx. 160° - 230 °C

Coatings: approx. 160° - 240 °C

For injection moulding Lucofin compounds are processed at melt temperatures ranging from 160° - 220 °C and mould temperatures from 10° - 40 °C.

### Packaging

Granules: 25 kilo bags, other packaging upon request.

### 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.

### 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. Lucofin can be supplied as an algicide effective version upon request.

General Information	
Features	Environmentally Sound
	Good Chemical Resistance
	Good Colorability
	Good Flexibility
	Good Heat Aging Resistance
	Good Processability
	Good Stability
	Good Stretchability

Good Tear Strength  
 Good Toughness  
 Good UV Resistance  
 Good Weather Resistance  
 Low Temperature Flexibility  
 Weldable

Uses	Membranes Profiles Swimming Pools
Appearance	Light Blue
Forms	Granules
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.990	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)	95		ISO 868
Additional Information	Nominal Value	Unit	Test Method
Low Temperature Flexural Test	< -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 180	°C	

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