

# Product Data Sheet Lucofin® 1451, 1452, 1459, 1460, 1461

## 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 1451 – light blue

Lucofin 1452 – blue

Lucofin 1459 – azur blue

Lucofin 1460 – white

Lucofin 1461 – ice 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.

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Technical Properties			1451	1452	1459	1460	1461
Colour	Standard	Unit	light blue	blue	azur blue	white	ice blue
MFR (190 °C/2.16 kg)	ISO 1133	g/10 min	9	7	9	9	9
Density (23 °C)	ISO 1183	g/cm <sup>3</sup>	0.99	0.99	0.99	0.99	0.99
Shore Hardness A (23 °C)	ISO 868	-	95	90	95	95	95
Low Temperature Flexural Test	DIN 53361	°C	< - 45	< - 45	< - 45	< - 45	< - 45
These standard values are typical values and should not be regarded as specifications.							