

Product Data Sheet

Lucofin® 1455P

1. Product description

Lucofin®1455P is a thermally and against UV-radiation stabilized TPO¹ based material and is used for roofing membranes.

The granules are available in the standard color Lucofin®1455P, black.

2. Product properties

Lucofin®1455P displays excellent tear resistance, flexibility, and heat resistance. It exhibits good toughness and sufficient biaxial stretchability, and flexibility even at low temperatures. Special stabilization provides good resistance to heat and UV degradation. Thus, Lucofin® is highly resistant to weathering and ageing.

3. Product advantages

- Easy processing when used on standard processing equipment
- Easy to weld (hot air / hot air wedge welding)
- Good mechanical properties
- Thermal ageing resistance
- Compatible with polyolefines and bitumen acc. to DIN 16726

4. Applications

Colored Lucofin® products are mainly used in construction, for instance, for TPO/FPO roofing, profiles for the construction industry as well as water barrier. Lucofin® membranes and profiles can be welded safely and durably.

5. Processing

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

Membranes/ flat-sheet composites: approx. 160° - 230°C
Coatings: approx. 160° - 240°C

For injection molding, Lucofin® compounds are processed at melt temperatures ranging from 160° - 220°C and mold temperatures from 10° - 40°C.

6. Root resistance

Lucofin®1455P roofing and sealing membranes are resistant to root penetration according to DIN 16726, EN 13948 and FLL.

7. Fire prevention

The product passes European Standard prEN 1187 test method 1. However, it should be taken into account that the configuration of the membrane and the roof construction can have a decisive effect on the test results.

8. 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.

9. Storage and handling

Granules in 25 kg bags, pallet standard = 1.375 kg

Other Packaging upon request.

Lucofin®1455P should be stored under dry conditions at a temperature below 40°C and protected from UV-light.

Otherwise the packaging could be damaged or degradation may occur resulting in odor generation and color changes

We strongly recommend to use the material latest within 6 months after delivery. Storage time in excess of 6 months may have a negative impact on the processability and should be inspected according to quality assurance measures to ensure product's performance.

¹ TPO/FPO – Thermoplastic Polyolefine / Flexible Polyolefine

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Lucofin[®] 1455P

Typical properties*	Standard	Unit	Lucofin [®] 1455P
MFR (190 °C/2,16 kg)	ISO 1133	g/10 min	5
Density	ISO 1183	g/cm ³	1,0
Stress at break	ISO 527	MPa	11
Elongation at break	ISO 527	%	> 600
Low temperature flexural test (cold bend test)	EN 495-5	°C	< -45
UV-resistance	EN 1297	hrs	>5000

* These standard values are typical values measured from a compression molded sheet and should not be regarded as specification.

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