

# Product Data Sheet

## Lucofin® 1412

### 1. Product description

Lucofin®1412 is a thermally and stabilized TPO against UV-radiation based material and is used for roofing membranes.

The granules are available in the standard color

Lucofin®1412, lightgrey acc. RAL 7035

### 2. Product properties

Lucofin®1412 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 polyolefins and bitumen acc. to DIN 16726

### 4. 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

### 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° - 220°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®1412 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®1412 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®1412 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®141 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.

Disclaimer: The product mentioned herein is not intended to be used for medical, pharmaceutical or healthcare applications; and we do not support its use for such applications.

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## Lucofin<sup>®</sup> 1412

Typical properties*			
	Standard	Unit	Value
Color	-	accord. to	RAL 7035, lightgrey
MVR (190 °C/2,16 kg)	ISO 1133	ml/10 min	7,5
Density (23°C)	ISO 1183	g/cm <sup>3</sup>	0,990
Stress at break (23°C)	ISO 527	MPa	>11
Elongation at break (23°C)	ISO 527	%	> 600
UV-resistance	EN 1297	hrs	>5000
*These standard values are typical values and should not be regarded as specifications.			

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