

# Product Data Sheet

## Lucofin® 1453, Lucofin® 1454

### 1. Product description

Lucofin®1453/1454 are a thermally and stabilized TPO against UV-radiation based material and are used for roofing membranes.

The granules are available in the standard colors

Lucofin®1453 oxyde red	acc. RAL 3009
Lucofin®1454 grass green	acc. RAL 6025

### 2. Product properties

Lucofin®1453/1454 display 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®1453/1454 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®1453/1454 are 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®1453/1454 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®1453,1454 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. To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, we do not assume any liability whatsoever for the accuracy and completeness of these information. LUCOBIT AG gives no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy himself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use as well as the appropriate processing and handling of our products. No liability can be accepted with respect to the use of LUCOBIT AG products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any other third party materials.

# Product Data Sheet

## Lucofin<sup>®</sup> 1453, Lucofin<sup>®</sup>1454

<b>Typical properties*</b>			
	<b>Standard</b>	<b>Unit</b>	<b>1453 oxyde red – 1454 grass green*</b>
Color	-	accord. to	RAL 3009 oxyde red RAL 6025 grass green
MVR (190 °C/2,16 kg)	ISO 1133	ml/10 min	5
Density (23°C)	ISO 1183	g/cm <sup>3</sup>	1,0 – 1.1
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.			

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. To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication. However, we do not assume any liability whatsoever for the accuracy and completeness of these information. LUCOBIT AG gives no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy himself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use as well as the appropriate processing and handling of our products. No liability can be accepted with respect to the use of LUCOBIT AG products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any other third party materials.