

# Product Data Sheet

## Lucolit® 1310, 1320, 1321, 1322, 1323

### 1. Product description

Lucolit® is a thermally and against UV-radiation stabilized TPOs<sup>1</sup> based material and are used for roofing membranes.

The granules are available in the standard colors

Lucolit®1310	olive grey	acc. to RAL 7002
Lucolit®1320	grey beige	acc. to RAL 1019
Lucolit®1321	water blue	acc. to RAL 5021
Lucolit®1322	clay brown	acc. to RAL 8003
Lucolit®1323	reseda green	acc. to RAL 6011

### 2. Product properties

Lucolit® 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, Lucolit® 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

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

### 5. Processing

Lucolit® 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
Profiles:	approx.. 150° - 200°C
Coatings:	approx. 160° - 240°C

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

### 6. Root resistance

Lucolit® 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

Lucolit® 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, Lucolit® may swell or dissolve to a certain extent.

### 9. Packaging and storage

Granules in 25 kg bags, pallet standard = 1.375 kg

Other Packaging upon request.

Lucolit® 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.

<sup>1</sup> TPO/FPO – Thermoplastic Polyolefines / Flexible Polyolefines

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Typical properties*	Standard	Unit	Lucolit®1310 - Lucolit®1323
MFR (190 °C/2,16 kg)	ISO 1133	g/10 min	9
Density	ISO 1183	g/cm <sup>3</sup>	0,98
E-Modulus	ISO 527	MPa	80
Shore A hardness	ISO 868	-	90
Cold bend test	DIN 53361	°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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