

Product Data Sheet Lucolit®

1310, 1320, 1321, 1322, 1323

Product description

Lucolit® is a coloured, highly stabilized, TPO raw material based on polyolefins. The granules are available in the following standard colours:

Lucolit 1310 - grey

Lucolit 1320 - beige

Lucolit 1321 - blue

Lucolit 1322 - red

Lucolit 1323 - green

Product properties

Lucolit products display excellent tear resistance, flexibility, and weathering resistance. Lucolit 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. Lucolit 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 wedge welding)
- ▶ good mechanical properties
- ▶ flexibility
- ▶ ageing resistant
- ▶ compatible with bitumen and polyolefins according to DIN 16726
- ▶ environmentally sound
- ▶ long-term experience

Applications

Coloured Lucolit products are mainly used in construction, for instance for roofing and sealing membranes, profiles or waterstops. Lucolit membranes can be welded safely and durably. Furthermore Lucolit 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 colours and stabilization.

Processing

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

Profiles: approx. 150° - 200 °C

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

Coatings: approx. 160° - 270 °C

For injection moulding Lucolit 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

Lucolit roofing and sealing membranes are resistant to penetration by roots according to DIN 16726 and FLL, and root resistant.

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.

Fire protection

Lucolit is categorized as building material class B2 and can be supplied as flame retardant version upon request.

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Typical Properties							
	Standard	Unit	1310	1320	1321	1322	1323
Colour			grey	beige	blue	red	green
MFR (190 °C/2.16 kg)	ISO 1133	g/10min	9	9	9	9	9
Density (23 °C)	ISO 1183	g/cm ³	0.98	0.98	0.98	0.98	0.98
Module of Elasticity (23 °C)	ISO 527	MPa	80	80	80	80	80
Shore Hardness A (23 °C)	ISO 868	-	90	90	90	90	90
Low Temperatures Flexural Test	DIN 53361	°C	< - 45	< - 45	< - 45	< - 45	< - 45
These standard values are typical values and should not be regarded as specifications.							

Note

The information provided in this document is based on our product tests and present technical knowledge. It does not release purchasers from the responsibility of carrying out their receiving inspections. Neither does it imply any binding assurance of suitability of our products for a particular purpose. As LUCOBIT cannot anticipate or control the many different conditions under which this product may be processed and used this information does not relieve processors from their own tests and investigations. Any proprietary rights as well as existing legislation shall be observed.