

Lucofin® 1412-t3

Polyolefin

Lucobit AG

Message:

Product description

Lucofin® 1410-t3, 1411-t3, 1412-t3, 1413-t3 and 1414-t3 are colored, highly stabilized polyolefin-based TPO granules.

The following colour settings are supplied as standard:

- 1410-t3 - grey
- 1411-t3 - white
- 1412-t3 - pale grey
- 1413-t3 - dark grey
- 1414-t3 - silk grey

Fire prevention

The products are provided with special halogen free fire retardants in order to pass test method 1 of European standard EN 1187. It should be taken into account that the roof construction, however, can have a decisive effect on the test results.

Product characteristics

Lucofin® 1410-t3, 1411-t3, 1412-t3, 1413-t3 and 1414-t3 have convincing properties on account of outstanding breaking strength, flexibility and resistance to weathering. Lucofin® 1410-t3, 1411-t3, 1412-t3, 1413-t3 and 1414-t3 are distinguished by good tenacity, high biaxial extensibility and flexibility even at low temperatures.

Product advantages

Simple processing in conventional plastic processing plants

Variety of colours

Good bondability (hot air/hot wedge)

Good mechanical characteristics

Flexibility

Resistance to aging

Environmental friendliness

Long-term experience of ECB/TPO

Fields of application

Lucofin® 1410-t3, 1411-t3, 1412-t3, 1413-t3 and 1414-t3 are mainly processed for coloured roof and sealing sheeting and also for profiles in the construction sector. Sheetting and profiles of Lucofin® 1410-t3, 1411-t3, 1412-t3, 1413-t3 and 1414-t3 are safely and durably bondable under almost all weathering conditions. Articles for the construction accessories sector are moreover produced in the injection moulding process. On account of the colour and stabilization similarity, it is usually a matter there of an identical choice of material with the extruded sheeting materials.

Chemical resistance

Lucofin® 1410-t3, 1411-t3, 1412-t3, 1413-t3 and 1414-t3 are resistant to water and aqueous solutions, to salts and to dilute acids and bases. Aliphatic, aromatic and halogen-substituted hydrocarbons can in some cases begin to swell or dissolve Lucofin® 1410-t3, 1411-t3, 1412-t3, 1413-t3 and 1414-t3.

| General Information | |
|---------------------|-----------------------------|
| Features | Acid Resistant |
| | Base Resistant |
| | Bondability |
| | Environmentally Sound |
| | Flame Retardant |
| | Good Chemical Resistance |
| | Good Flexibility |
| | Good Weather Resistance |
| | Halogen Free |
| | High Strength |
| | Low Temperature Flexibility |
| | Salt Water/Spray Resistant |
| | |

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|-------------------|---------------------------|
| Uses | Bonding |
| | Construction Applications |
| | Membranes |
| | Profiles |
| | Sheet |
| Agency Ratings | DIN 16726 |
| | EN 1187 |
| Appearance | Light Grey |
| Forms | Granules |
| Processing Method | Injection Molding |
| | Profile Extrusion |
| | Sheet Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|------------------------|-------------|
| Density | 1.06 | g/cm ³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 8.00 | cm ³ /10min | ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A, -5°C) | 95 | | ISO 868 |
| Additional Information | Nominal Value | Unit | Test Method |
| Low Temperature Flexibility | < -40 | °C | DIN 53361 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 160 to 220 | °C | |
| Mold Temperature | 10.0 to 40.0 | °C | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 150 to 180 | °C | |

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