

# Product data sheet Lucofin® 1410-t1, 1411-t1, 1412-t1, 1413-t1, 1414-t1

## Product description

Lucofin® 1410-t1, 1411-t1, 1412-t1, 1413-t1 and 1414-t1 are colored, highly stabilized polyolefin-based TPO granules. The following colour settings are supplied as standard:

1410-t1 – grey

1411-t1 – white

1412-t1 – pale grey

1413-t1 – dark grey

1414-t1 – 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 configuration of the membrane and the roof construction, however, can have a decisive effect on the test results.

## Product characteristics

Lucofin® 1410-t1, 1411-t1, 1412-t1, 1413-t1 and 1414-t1 have convincing properties on account of outstanding breaking strength, flexibility and resistance to weathering. Lucofin® 1410-t1, 1411-t1, 1412-t1, 1413-t1 and 1414-t1 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-t1, 1411-t1, 1412-t1, 1413-t1 and 1414-t1 are mainly processed for coloured roof and sealing sheeting and also for profiles in the construction sector. Sheeting and profiles of Lucofin® 1410-t1, 1411-t1, 1412-t1, 1413-t1 and 1414-t1 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.

## Processing

Lucofin® 1410-t1, 1411-t1, 1412-t1, 1413-t1 and 1414-t1 can be processed on all processing machines customary for thermoplastics. For extrusion, the following processing temperatures are recommended as standard values:

Profiles:	about 150°–180°C
Membranes / flat-sheet composites:	about 160°–180°C
Coatings:	about 160°–180°C

In the injection moulding process, Lucofin® 1410-t1, 1411-t1, 1412-t1, 1413-t1 and 1414-t1 compounds are processed at moulding composition temperatures of 160°–180°C and tool temperatures of 10°–40°C.

## Supply form

Granules: sacks of 25 kg each, other packaging forms on demand.

## Root resistance

Roof and sealing sheeting of Lucofin is root penetration-resistant according to DIN 16726, EN 13948 and FLL and also rotting-resistants.

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## Chemical resistance

Lucofin® 1410-t1, 1411-t1, 1412-t1, 1413-t1 and 1414-t1 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

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<b>Technical data</b>							
	Standard	Unit	1410-t1	1411-t1	1412-t1	1413-t1	1414-t1
Colour			Grey	White	Soft grey	Dark grey	Silk grey
MVR (190°C/2.16 kg)	ISO 1133	cm <sup>3</sup> /10min	8	8	8	8	8
Density (23°C)	ISO 1183	g/cm <sup>3</sup>	1.06	1.06	1.06	1.06	1,06
Shore hardness A (23°C)	ISO 868	-	95	95	95	95	95
Cold bending flexibility	EN 495-5	°C	< - 40	< - 40	< - 40	< - 40	< - 40
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.