

# Product data sheet

## Lucobatch® 1412-t3 MB-HI

### Product description

Lucobatch® 1412-t3 MB-HI is a coloured, highly stabilized TPO masterbatch based on polyolefins. The granules are available in light grey acc. RAL 7035. Lucobatch® 1412-t3 MB-HI (40 %) is mixed with 30% Lucofin 1400HN and 30% PE-Plastomer MFR 2 to create the dedicated Lucofin® 1412-t3 membrane with reduced MVR.

### Fire prevention

The final compound is provided with special halogen free fire retardants in order to pass test method 1-3 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 properties

The final Lucofin® 1412-t3 has convincing properties on account of outstanding breaking strength, flexibility and resistance to weathering. Lucofin® 1412-t3 with low MVR is distinguished by good tenacity, high biaxial extensibility and flexibility even at low temperatures.

### Product advantages

- ▶ Simple processing in conventional plastic processing plants
- ▶ 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® 1412-t3 is mainly processed for coloured roof and sealing sheeting and also for profiles in the construction sector. Sheeting and profiles of Lucofin® 1412-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.

### Processing

Lucofin® 1412-t3 with lowered MVR is created by mixing the Lucobatch® 1412-t3 MB-HI with 30% Lucofin® 1400HN and 30% PE-Plastomer MFR 2 and can be processed on all processing machines customary for thermoplastics. For extrusion, the following processing temperatures are recommended as standard values:

Profiles:	about 150°–200°C
Membranes / flat-sheet composites:	about 160°–230°C
Coatings:	about 160°–270°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-resistant.

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### Chemical resistance

Lucofin® 1412-t3 is 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® 1412-t3.

Technical data			
	Standard	Unit	Lucobatch 1412-t3 MB-HI
Colour			Light Grey
MVR (190°C/2.16 kg)	ISO 1133	cm <sup>3</sup> /10min	2.5
Density (23°C)	ISO 1183	g/cm <sup>3</sup>	1.6
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.