

Product Data Sheet

Lucobatch® 1412 FR-HI

1. Product description

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

2. Product properties

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

3. 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

4. Fields of application

Lucofin®1412 FR is mainly processed for coloured roof and sealing sheeting and also for profiles in the construction sector. Sheeting and profiles of Lucofin®1412 FR are safely and durably bondable under almost all weathering conditions.

Lucofin®1412 FR should be taken if higher requirements to fire prevention takes place.

5. Processing

Lucofin®1412 FR is created by mixing Lucobatch®1412 FR-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

6. Fire prevention

The final compound is provided with special halogen free fire retardants in order to pass test method 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.

7. Chemical resistance

Lucofin®1412 FR 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 FR.

8. Packaging

Granules in 25 kg bags, standard pallet 1.375 kg. Other packaging upon request.

Lucobatch®1412 FR HI should be stored under dry conditions at a temperature below 40 °C and protected from UV-light otherwise the packaging could be damaged Storage time in excess of 6 months may have a negative impact on the processability of the product. We strongly recommend to use the material latest within 6 months after delivery.

Use beyond the recommended shelf-life. The product should be inspected according to quality assurance measures to ensure product's performance.

Otherwise degradation may occur resulting in odor generation and color changes.

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Typical properties Lucobatch®1412 FR HI*			
	Standard	Unit	Lucobatch® 1412 FR HI
Colour			lightgrey acc. RAL 7035
MVR (190 °C/2.16 kg)	ISO 1133	ml/10min	2,5
Density (23°C)	ISO 1183	g/cm3	1,6
Ratio to create Lucofin®1412 FR			
Lucobatch 1412 FR HI 40% Lucofin1400HN 30% Plastomer mfr 2 30 %	Norm	Einheit	Lucofin® 1412FR
Colour			lightgrey acc. RAL 7035
MVR (190 °C/2.16 kg)	ISO 1133	ml/10min	8 - 11
Density (23 °C)	ISO 1183	g/cm3	1,01
Shore A	ISO 868		85
Flexibility at lower temperatures	EN 495-5	°C	< -45
These standard values are typical values and should not be regarded as specifications.			

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