

# Product Data Sheet

## Lucobatch® 1412 MB-E

### 1. Product description

Lucobatch®1412 MB-E is a coloured, highly stabilized, bitumen and halogenfree masterbatch based on polyolefins. The granules are available in the following colour:

Lucobatch 1412 MB-E – dust grey                      acc. RAL 7037

Lucobatch 1412 MB-E (54%) is usually mixed with Lucofin 1400 MN (46%) to create the dedicated Lucofin®1412 membrane compound.

### 2. Product properties

Lucofin®1412 displays excellent tear resistance, flexibility, and weathering resistance. Lucofin®1412 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. Lucofin®1412 is thus to a large extent resistant to weathering and ageing.

### 3. Product advantages

- easy processing on standard processing equipment
- wide colour range
- easy to weld (hot air/hot air wedge welding) good mechanical properties
- flexibility ageing resistant
- compatible with polyolefins and bitumen according to DIN 16726
- environmentally sound long-term experience

### 4. Applications

Coloured Lucofin® products are mainly used in construction, for instance, for TPO/FPO roofing and swimming pool membranes, profiles for the construction industry and as well as waterstops. Lucofin membranes and profiles can be welded safely and durably. Furthermore, Lucofin is suitable for the production of injection moulded parts in the building.

### 5. Processing

Lucofin® products are suited for standard processing equipment used for thermoplastics. We recommend the following processing temperatures as standard values for

extrusion.

Membranes/ flat-sheet composites:    approx. 160° - 220°C

Coatings:    approx. 160° - 240°C

For injection molding, Lucofin® compounds are processed at melt temperatures ranging from 160° - 220°C and mold temperatures from 10° - 40°C.

### 6. Root resistance

Lucofin®1412 roofing and sealing membranes are resistant to root penetration according to DIN 16726, EN 13948 and FLL.

### 7. Fire protection

Lucofin®1412 passes European Standard prEN 1187 test method 1. However, it should be taken into account that the configuration of the membrane and the roof construction can have a decisive effect on the test results.

### 8. Chemical resistance

Lucofin®1412 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 Lucofin may swell or dissolve to a certain extent.

### 9. Storage and handling

Granules in 25 kg bags, pallet standard = 1.375 kg

Other Packaging upon request.

Lucobatch®1412MB-E 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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# Product Data Sheet

## Lucobatch® 1410MB-E

<b>Typical Properties</b>			
	Standard	Unit	<b>Lucobatch® 1412MB-E</b>
Colour			dust grey acc. RAL 7035
MVR (190 °C/2.16 kg)	ISO 1133	ml/10min	9 - 13
Density (23 °C)	ISO 1183	g/cm3	1.07
<b>as mixture with 46% Lucofin 1400® MN</b>			
			<b>Lucofin® 1412</b>
Colour			dust grey
MVR (190 °C/2.16 kg)	ISO 1133	ml/10min	8 - 11
Density (23 °C)	ISO 1183	g/cm3	0,99
Shore A	ISO 868		85
Low temperature flexurale test	EN 495-5	°C	< -45
These standard values are typical values and should not be regarded as specifications.			

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