

# Product Data Sheet

## Lucobatch® 1455 MB-E

### Product description

Lucobatch is a coloured, highly stabilized, bitumen-free TPO master batch based on polyolefins. The granules are available in the following colour:

Lucobatch 1455 MB-E – black

Lucobatch 1455 MB-E (54%) is usually mixed with Lucofin 1400 MN (46%) to create the dedicated Lucofin membrane compound.

### Product properties

Lucofin products display excellent tear resistance, flexibility, and weathering resistance. Lucofin 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 is thus to a large extent resistant to weathering and ageing.

### 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

### 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

sector. In most cases it is necessary to choose the same raw material for parts, profiles and membranes due to the requirement of same colour and stabilization.

### Processing

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

|                                  |                       |
|----------------------------------|-----------------------|
| Profiles:                        | approx. 150° - 180 °C |
| Membranes/flat-sheet composites: | approx. 160° - 230 °C |
| Coatings:                        | approx. 160° - 240 °C |

For injection moulding Lucofin compounds are processed at melt temperatures ranging from 160° - 220 °C and mould temperatures from 10° - 40 °C.

### Packaging

Granules: 25 kilo bags, other packaging upon request.

### Root resistance

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

### Fire protection

Lucofin is categorized as building material class B2 and can be supplied as flame retardant version upon request.

### Chemical resistance

Lucofin 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.

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| <b>Typical Properties</b>  |          |                   |                               |
|--|----------|-------------------|-------------------------------|
|  | Standard | Unit              | <b>Lucobatch<br/>1455MB-E</b> |
| Colour   |          |                   | black                         |
| MVR (190 °C/2.16 kg)   | ISO 1133 | ml/10min          | 9 - 13                        |
| Density (23 °C)  | ISO 1183 | g/cm <sup>3</sup> | 1.03                          |
| <b>as mixture with 46%<br/>Lucofin 1400 MN</b>   |          |                   |                               |
|  |          |                   | <b>Lucofin<br/>1455 P</b>     |
| Colour   |          |                   | black                         |
| MVR (190 °C/2.16 kg)   | ISO 1133 | ml/10min          | 8 - 11                        |
| Density (23 °C)  | ISO 1183 | g/cm <sup>3</sup> | 0,98                          |
| Shore A  | ISO 868  |                   | 90                            |
| Low temperature flexurale test   | EN 495-5 | °C                | < -45                         |
| 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.