

Lucofin® 1414

Polyolefin

Lucobit AG

Message:

Lucofin is a coloured, highly stabilized, bitumen-free TPO raw material based on polyolefins. 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.

| General Information | |
|---------------------|----------------------------------|
| Additive | Heat Stabilizer |
| | UV Stabilizer |
| Features | Acid Resistant |
| | Base Resistant |
| | Environmentally Sound |
| | Good Flexibility |
| | Good Heat Aging Resistance |
| | Good Processability |
| | Good Stretchability |
| | Good Tear Strength |
| | Good Toughness |
| | Good UV Resistance |
| | Good Weather Resistance |
| | Heat Stabilized |
| | High ESCR (Stress Crack Resist.) |
| | Low Temperature Flexibility |
| | Salt Water/Spray Resistant |
| | Weldable |

| | |
|-------------------|--|
| Uses | Coating Applications Construction Applications Membranes Profiles |
| Appearance | Grey |
| Forms | Granules |
| Processing Method | Injection Molding Profile Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 0.990 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 8.0 | g/10 min | ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A) | 85 | | ISO 868 |
| Additional Information | Nominal Value | Unit | Test Method |
| Low Temperature Flexibility | < -45 | °C | DIN 53361 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 160 to 220 | °C | |
| Mold Temperature | 10.0 to 40.0 | °C | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 150 to 180 | °C | |

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