

Product Data Sheet

Lucobit®1235

1. Product description

Lucobit®1235 is a thermally stabilized resin (ECB), based on high quality polyethylene copolymers with varying additions of special and amorphous bitumen .

The granules are black.

2. Product advantages

- corrosion protection
- Easy to weld (hot air / hot air wedge welding)
- Good mechanical properties
- Thermal ageing resistance
- Compatible with polyolefins and bitumen acc. to DIN 16726
- More than 40 years experience with ECB in the field of roofing membranes or landfill.

3. Applications

Whenever the benefits of bitumen as a raw material shall be proven in the world of plastics, free-flowing Lucobit®1235 granules can be the technological solution. The main application areas in the plastics industry are:

- roofing and sealing membranes for tunnels, land fills, water retention basins, dikes
- profiles, e.g. waterstops, connecting profiles, etc. for the construction sector
- films for construction and civil engineering, laminating films, multi-layer films
- polymer modification of bitumen and vice versa
- robust, long-life injection moulded parts in the construction area, such as castors, shingels, fittings
- coatings as corrosion protection, e.g. for pipes, steel and water tanks
- vibration damping, e.g. with profiles, bandages

4. Processing

Lucobit® 1235 is suited for standard processing equipment used for thermoplastics. We recommend the following processing temperatures as standard values for extrusion.

Profiles approx.. 150°C – 180°C

Membranes / flat-sheet composites: approx. 160° - 230°C

Coatings: approx. 160° - 240°C

For injection moulding Lucobit®1235 compounds are processed at melt temperatures ranging from 160° - 220°C and mould temperatures from 10° - 40°C.

5. Root resistance

Lucobit® 1235 roofing and sealing membranes are resistant to root penetration according to DIN 16726, EN 13948 and FLL.

6. Fire prevention

Lucobit®1235 is assigned to Class E of EN 13501-1 and passes European Standard prEN 1187, test method 1. 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. Environmental compatibility

Lucobit®1235 is environmentally friendly in manufacture and processing, free of plasticizers and chlorine, and not harmful to health, water, soils, or plants.

8. Chemical resistance

Lucobit®1235 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, Lucobit®1235 may swell or dissolve to a certain extent.

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9. Storage and handling

Granules in 25 kg bags, pallet standard = 1.375 kg

Lucobit®1235 should be stored in dry conditions at a temperature below 40 °C and protected from UV-light, otherwise the packaging could be damaged.

Storage time longer than 6 months may have a negative influence on the processability of the product. We strongly recommend to convert the material latest within 6 months after delivery. Use past the recommended shelf-life, the product should be inspected according to quality assurance measures to ensure performance.

Typical properties Lucobit®1235

| Typical properties * | Conditions | Standard | Unit | Lucobit®1235 |
|----------------------|--|------------|-------------------------|--------------|
| Color | - | - | - | black |
| MVR | 190 °C/2,16 kg | ISO 1133 | cm ³ /10 min | 4,5 |
| Density | 23°C Pressplatte | ISO 1183 | g/cm ³ | 0,95 |
| Bulk density | 23°C | ISO 60-2 | kg/l | 0,5 |
| Ash content | 30 min., 800°C | ISO 3451-1 | % | < 1 |
| Stress at break | 23°C, 50% r.F. compression molded sheet | ISO 527 | MPa | > 10 |
| Strain at break | 23°C, 50% r.F. compression molded sheet | ISO 527 | % | > 700 |
| UV-Resistance | According to EN 13956 | EN 1297 | h | > 5000 h |

*These standard values are typical values measured from a compression molded sheet and should not be regarded as specifications

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