

# Product Data Sheet

## Lucobit®1233

### 1. Product description

Lucobit®1233 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
- Sealing membranes for construction and civil engineering
- Compatible with polyolefins and bitumen acc. to DIN 16726
- More than 40 years experience with ECB in the field of landfill and civil engineering

### 3. Applications

Whenever the benefits of bitumen as a raw material shall be proven in the world of plastics, free-flowing Lucobit®1233 granules can be the technological solution. The main application areas in the plastics industry are:

- sealing membranes for tunnels, dikes land fills, water retention basins
- profiles, e.g. waterstops, connecting profiles, etc. for the construction sector
- films for construction and civil engineering, laminating films, multi-layer films
- 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®1233 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

For injection moulding Lucobit®1233 compounds are processed at melt temperatures ranging from 160° - 220°C and mould temperatures from 10° - 40°C.

### 5. Root resistance

Lucobit®1233 roofing and sealing membranes are resistant to root penetration according to DIN 16726, EN 13948 and FLL.

### 6. Fire prevention

Lucobit®1233 is assigned to Class E of EN 13501-1

### 7. Environmental compatibility

Lucobit®1233 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®1233 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®1233 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®1233 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®1233

Typical properties *	Conditions	Standard	Unit	Lucobit®1233
Color	-	-	-	black
MVR	190 °C/2,16 kg	ISO 1133	cm <sup>3</sup> /10 min	4,5
Density	23°C Pressplatte	ISO 1183	g/cm <sup>3</sup>	0,93
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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