

MATERIAL SPECIFICATION

HIGH DENSITY POLYETHYLENE FOR BLOW MOULDING

LITEN BB 29 H

Characteristics

LITEN BB 29 H is a copolymer with broad molecular weight distribution, suitable for blow moulding and extrusion. This grade exhibits an excellent balance among processability, stiffness and ESC resistance. Typical application is manufacture of technical parts.

Hygienic approval

LITEN BB 29 H F meets the hygienic requirements on materials and articles intended for contact with foodstuffs according to Regulation (EC) 1935/2004 of the European Parliament and of the Council, as well as according to Commission Regulation (EU) No 10/2011 including changes and additions.

ISO designation

ISO 1872-PE,B,50-T012

| <i>Quality parameter</i> | <i>Unit</i> | <i>Values</i> | <i>Test method</i> |
|---|-------------------|---------------|--------------------|
| Melt Flow Rate (190/2,16) | g/10 min | 0,18 - 0,30 | ISO 1133-1 |
| Melt Flow Rate (190/5,0) | | 0,95 - 1,50 | |
| Melt Flow Rate Ratio (21,6 kg/2,16 kg) | - | 80 - 160 | |
| Density (23 ± 0,1) °C | kg/m ³ | 953 - 957 | ISO 1183-2 |
| Yellowness Index | standard | max. B | ASTM D 1925 |
| Volatile Matter Content | % | max. 0,1 | ISO 1269 |
| Yield Stress | MPa | min. 24 | ISO 527-1 |
| Flexural Modulus of Elasticity | MPa | min. 1100 | ISO 178 |
| Charpy Notched Impact Strength at 23 °C -30 °C | kJ/m ² | min. 9 | ISO 179-1 |
| | | min. 4 | |
| Vicat Softening Temperature | °C | min. 124 | ISO 306 |
| ESCR F ₅₀ | h | min. 100 | ASTM D 1693 |
| FNCT (9 MPa/ 50 °C) | h | 8 * | ISO 16770 |

* informative value

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