

Technical Data Sheet

Petrothene LB832001



High Density Polyethylene

Product Description

Petrothene LB832001 is a high density polyethylene resin selected by customers for sheet extrusion and thermoforming. LB832001 exhibits very low sag, high stiffness and good chemical resistance.

| | |
|--------------------------|-----------------------------|
| Application | General Sheet Extrusion |
| Market | Rigid Packaging |
| Processing Method | Sheet and Profile Extrusion |
| Attribute | High Stiffness |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|--|---------------|-------------------|---------------|-------------------|-------------|
| Physical | | | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 0.29 | g/10 min | 0.29 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.962 | g/cm ³ | 0.962 | g/cm ³ | ASTM D1505 |
| Mechanical | | | | | |
| Flexural Modulus | | | | | |
| (1% Secant) | 250000 | psi | 1720 | MPa | ASTM D790 |
| (2% Secant) | 205000 | psi | 1410 | MPa | ASTM D790 |
| Tensile Strength at Yield | 4600 | psi | 31.7 | MPa | ASTM D638 |
| Tensile Elongation at Break | >600 | % | >600 | % | ASTM D638 |
| Hardness | | | | | |
| Shore Hardness, (Shore D) | 67 | | 67 | | ASTM D2240 |
| Thermal | | | | | |
| Vicat Softening Temperature | 268 | °F | 131 | °C | ASTM D1525 |
| Low Temperature Brittleness, F ₅₀ | <-105 | °F | <-76 | °C | ASTM D746 |

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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