

Technical Data Sheet

Petrothene LT602902



High Density Polyethylene

Product Description

Petrothene LT602902 is a high density polyethylene sheet extrusion grade with excellent extrusion characteristics and low warpage. The resulting sheet exhibits good stiffness and impact properties. Typical applications include sheet for signage and packaging.

| | |
|--------------------------|---|
| Application | General Sheet Extrusion; Housewares; Structural Parts |
| Market | Rigid Packaging |
| Processing Method | Extrusion Blow Molding; Sheet and Profile Extrusion |
| Attribute | Good Processability |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---|---------------|-----------------------|---------------|-------------------|-------------|
| Physical | | | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 0.30 | g/10 min | 0.30 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.960 | g/cm ³ | 0.960 | g/cm ³ | ASTM D1505 |
| Mechanical | | | | | |
| Flexural Modulus, (1% Secant) | 225300 | psi | 1550 | MPa | ASTM D790 |
| Tensile Strength at Yield | 4390 | psi | 30.3 | MPa | ASTM D638 |
| Tensile Elongation at Break | 1400 | % | 1400 | % | ASTM D638 |
| Impact | | | | | |
| Tensile Impact Strength | 101 | ft-lb/in ² | 212 | kJ/m ² | ASTM D1822 |
| Thermal | | | | | |
| Vicat Softening Point | 261 | °F | 127 | °C | ASTM D1525 |
| Low Temperature Brittleness, F ₅₀ | <-105 | °F | <-76 | °C | ASTM D746 |
| Deflection Temperature Under Load, (66 psi, Unannealed) | 167 | °F | 75 | °C | ASTM D648 |

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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