

Petrothene® LT523501

High Density Polyethylene
LyondellBasell Industries

Message:

Petrothene LT523501 exhibits an enhanced balance of stiffness and environmental stress crack resistance. Typical applications include bottles for bleach, detergents, household chemicals, foodstuffs and pharmaceuticals.

| General Information | | | |
|--|--|-------------------|-------------|
| Features | Rigid, good | | |
| | High ESCR (Stress Cracking Resistance) | | |
| | Compliance of Food Exposure | | |
| Uses | Blow molding applications | | |
| | Bottle | | |
| Agency Ratings | FDA 21 CFR 175.1520 | | |
| Processing Method | Blow molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.952 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.35 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (50°C, 100% Igepal CO-630, F50) | 140 | hr | ASTM D1693 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 68 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 26.9 | MPa | ASTM D638 |
| Fracture | 19.5 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 1100 | % | ASTM D638 |
| Flexural Modulus - 1% Secant | 1200 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 67.0 | °C | ASTM D648 |
| Brittleness Temperature | < -76.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 124 | °C | ASTM D1525 |

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