

Alathon® L5040

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON L5040 is able to incorporate high levels of post consumer recycle and retain excellent bottle physical properties. This resin provides high ESCR and processing stability. Typical applications include stress crack resistant bottles and extruded pipe and conduit. L5040 containing antistat is available as L5040AS

| General Information | | | |
|---|--|-------------------|-------------|
| Recycled Content | Yes | | |
| Features | High ESCR (Stress Cracking Resistance) | | |
| | Good processing stability | | |
| | Compliance of Food Exposure | | |
| Uses | Catheter | | |
| | Piping system | | |
| | Bottle | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Forms | Particle | | |
| Processing Method | Blow molding | | |
| | Pipeline extrusion molding | | |
| | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.949 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.40 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (50°C, 10% Igepal CO-630, F50) | > 1000 | hr | ASTM D1693 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 63 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 23.4 | MPa | ASTM D638 |
| Tensile Elongation (Break) | > 600 | % | ASTM D638 |
| Flexural Modulus | 1100 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Tensile Impact Strength | 395 | kJ/m ² | ASTM D1822 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 76.0 | °C | ASTM D648 |
| Brittleness Temperature | < -75.0 | °C | ASTM D746 |

| | | | |
|-----------------------------|-----|----|------------|
| Vicat Softening Temperature | 128 | °C | ASTM D1525 |
| Additional Information | | | |

Elongation at Break, ASTM D638: >600%Tensile Impact, ASTM D1822: 188 ft-lb/in

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