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Technical Data Sheet

Polyaxis LL 3940-8442G SUNSHINE



Linear Low Density Polyethylene

Product Description

Polyaxis LL 8461 is a linear low density polyethylene intended for the rotational molding industry. Offers excellent ESCR and toughness.

Regulatory Status

For regulatory compliance information, see *Polyaxis* LL 3940-8442G SUNSHINE <u>Product Stewardship Bulletin</u> (PSB) and Safety Data Sheet (SDS).

| Status | Discontinued |
|-------------------|--|
| Availability | North America |
| Processing Method | Rotomolding |
| Attribute | Good ESCR (Environmental Stress Cracking Resistance); Good Toughness; Hexene Comonomer; UV Resistant |
| Forms | Powder |
| Appearance | Colors Available |
| Application | Agricultural Tanks; Outdoor Applications; Pallets; Septic Tanks |

| | Nominal | | |
|---|---------|----------|-------------|
| Typical Properties | Value | Units | Test Method |
| Physical | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 3.3 | g/10 min | ASTM D1238 |
| Density - Specific Gravity | 0.938 | g/cm³ | ASTM D1505 |
| Mechanical | | | |
| Tensile Strength at Yield, (50 mm/min, Rotational Molded) | 19.9 | MPa | ASTM D638 |
| Environmental Stress Crack Resistance | | | |
| (Compression Molded, F50, 100% Igepal) | >1000 | hr | ASTM D1693 |
| (Compression Molded, F50, 10% Igepal) | 60.0 | hr | ASTM D1693 |
| Flexural Modulus, (Rotational Molded, 1% Secant) | 834 | MPa | ASTM D790 |
| Tensile Elongation at Break, (Rotational Molded) | 240 | % | ASTM D638 |
| Impact | | | |
| Impact Strength | | | |
| (-40 °C, 3.18 mm, Rotational Molded) | 75 | J | ARM |
| (-40 °C, 6.35 mm, Rotational Molded) | >258 | J | ARM |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (264 psi) | 38.9 | °C | ASTM D648 |
| Deflection Temperature Under Load Unannealed (66 psi) | 58.9 | °C | ASTM D648 |
| Peak Melting Temperature | 126 | °C | ASTM D3418 |
| | | | |



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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