

CERTENE™ LLI-3525

Linear Low Density Polyethylene

Muehlstein

Message:

LLI-3525 is a certified prime grade designed for INJECTION MOLDING applications requiring excellent impact strength and environmental stress crack resistance. LLI-3525 features excellent low temperature impact strength, good processability and rigidity. LLI-3525 applications include general purpose injection molding applications. LLI-3525 recommended processing temperature is 180 to 220°C. with mold @ 20 to 40°C.. LLI-3525 complies with FDA regulation 21CFR 177.1520 (c) 3.1(a) and most international regulations concerning the use of Polyethylene in contact with food articles.

| General Information | | | |
|---|-----------------------------------|-------------------|-----------------|
| Features | Food Contact Acceptable | | |
| | Good Processability | | |
| | High ESCR (Stress Crack Resist.) | | |
| | High Impact Resistance | | |
| | Low Temperature Impact Resistance | | |
| | Medium Rigidity | | |
| Uses | General Purpose | | |
| Agency Ratings | FDA 21 CFR 177.1520(c) 3.1a | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.926 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 35 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance ¹ (50°C, 1.75 mm, 100% Igepal, Compression Molded, F50) | 10.0 | hr | ASTM D1693 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield, Compression Molded) | 10.0 | MPa | ASTM D638 |
| Tensile Elongation ³ (Break, Compression Molded) | 70 | % | ASTM D638 |
| Flexural Modulus - 1% Secant ⁴ (Compression Molded) | 380 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Low Temperature Impact (-40°C) | 189 | J | Internal Method |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded) | 45.0 | °C | ASTM D648 |
| Brittleness Temperature | < -76.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 92.0 | °C | ASTM D1525 |
| NOTE | | | |

| | |
|----|--------------------|
| 1. | Notched bent strip |
| 2. | 50 mm/min |
| 3. | 50 mm/min |
| 4. | 1.3 mm/min |

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