

Lanufene LLI 2420

Linear Low Density Polyethylene

Ras Lanuf Oil & Gas Processing Company (RASCO)

Message:

LANUFENE LLI 2420 is a linear low density polyethylene for injection molding with high mechanical properties and good process-ability. The narrow molecular weight distribution and good melt flow make it ideally suited for injection molding applications where good toughness, low warpage, outstanding low temperature performance and good environmental stress cracking resistance (ESCR) are demanded. LANUFENE LLI 2420 is suitable for injection molding applications such as housewares, lids, trash cans, industrial containers, automotive parts and toys. LANUFENE LLI 2420 is also designed for good base resin of various PE master batches.

| General Information | | | |
|--|--------------------------------------|-------------------|-----------------|
| Features | Food Contact Acceptable | | |
| | Good Flow | | |
| | Good Processability | | |
| | Good Toughness | | |
| | High ESCR (Stress Crack Resist.) | | |
| | Low Warpage | | |
| | Narrow Molecular Weight Distribution | | |
| Uses | Automotive Applications | | |
| | Containers | | |
| | Household Goods | | |
| | Industrial Containers | | |
| | Lids | | |
| | Masterbatch | | |
| | Toys | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.924 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/21.6 kg) | 20 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 1.0 to 3.0 | % | Internal Method |
| Environmental Stress-Cracking Resistance ¹ (50°C, 100% Igepal, F50) | 150 | hr | ASTM D1693 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus - 1% Secant | 314 | MPa | ASTM D638 |
| Tensile Strength (Ultimate) | 11.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 450 | % | ASTM D638 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 500 | J/m | ASTM D256A |

| Thermal | Nominal Value | Unit | Test Method |
|-----------------------------|---------------|------|-------------|
| Brittleness Temperature | < -70.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 94.0 | °C | ASTM D1525 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 38.0 μm) | 55 | | ASTM D2457 |
| Haze (38.0 μm) | 12 | % | ASTM D1003 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 180 to 270 | °C | |
| NOTE | | | |
| 1. | Non-Slitted | | |

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