

Lupolen 4261 A IM

High Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 4261 A IM is a high molecular weight high density polyethylene (HDPE). Typical customer applications include components for automotive fuel tank applications. It is supplied in pelletized form and is stabilized with antioxidants for the injection molding process. The product features an outstanding Enviromental Stress Cracking Resistance (ESCR), good chemical resistance in combination with an excellent low temperature impact resistance. Typical process includes injection molding.

Lupolen 4261 A IM is not intended for use in medical and pharmaceutical applications.

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Additive | Antioxidant | | |
| Features | Antioxidant | | |
| | High ESCR (Stress Crack Resist.) | | |
| | High Impact Resistance | | |
| Uses | Fuel Tanks | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.940 | g/cm ³ | ISO 1183 |
| Apparent Density | > 0.50 | g/cm ³ | ISO 60 |
| Melt Mass-Flow Rate (MFR) (190°C/21.6 kg) | 15 | g/10 min | ISO 1133 |
| FNCT ¹ (80°C) | 1.5 | day | ISO 16770 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 800 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 21.0 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 10 | % | ISO 527-2 |
| Impact | Nominal Value | Unit | Test Method |
| Tensile Impact Strength (-30°C) | 140 | kJ/m ² | ISO 8256/1A |
| Thermal | Nominal Value | Unit | Test Method |
| Melting Temperature (DSC) | 130 | °C | ISO 3146 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 230 to 280 | °C | |
| NOTE | | | |

1. 3.5 MPa, 2% Igepal BC/9

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