

ExxonMobil LLDPE

LL 6201 Series Injection Molding Resins

Description

LL 6201 series are high flow LLDPE grades, which offer a unique combination of excellent processability and outstanding product properties. Parts manufactured from LL 6201 have good gloss and offer advantages in toughness, environmental stress crack resistance, stiffness and heat distortion resistance over comparable low density polyethylene items.

Applications

- lids
- thin wall articles
- general purpose houseware
- compounding applications (RQ version)

Additive Package	Thermal Stabilizer	Physical Appearance
LL 6201XR	Yes	Pellets
LL 6201RQ	Yes	Coarse Powder

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D 1238	50 g/10 min	
Density	ASTM D 4703 / D 1505	0.926 g/cm ³	
Peak Melting Temperature	ExxonMobil Method	123 °C	253 °F
Vicat Softening Point	ISO 306-A50	90 °C	194 °F

Molded Properties			
Flexural Modulus (0.05 – 0.25%)	ISO 178	280 MPa	40500 psi
Yield Strength	ISO 527-2/1A/50	10 MPa	1150 psi
Elongation at Break	ISO 527-2/1A/50	> 100 %	
Elongation at Yield	ISO 527-2/1A/50	16 %	
IZOD Impact	ISO 180-1A	43 KJ/m ²	20 ft-lb/in ²
Environmental Stress Crack Resistance (*)	ASTM D 1693	6 hrs	

The molded properties were measured on 4 mm (157.5 mil) thick injection molded specimen based on ISO 1872-2.

(*) ESCR was measured on 2 mm (78.7 mil) thick compression molded plate (F50, 10 % Igepal, 50 °C, 122 °F).

LL 6201 series grades can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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