

**ExxonMobil LL 6100 Injection Molding Resin (discontinued \*\*)**

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Injection Molded

**Material Notes:**

LL 6100 is a narrow molecular weight butene copolymer designed for applications that require easy processability. This resin offers outstanding toughness and tear resistance in freezer applications for food packaging. Information provided by ExxonMobil Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-LL-6100-Injection-Molding-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ExxonMobil-LL-6100-Injection-Molding-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in <sup>3</sup>	ASTM D4883
Environmental Stress Crack Resistance	<= 1.0 hour	<= 1.0 hour	Condition B, 10%; ASTM D1693
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 190 °C	20 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	11.00 MPa	1595 psi	ASTM D638
Elongation at Break	350 %	350 %	ASTM D638
Flexural Modulus	0.2575 GPa	37.35 ksi	1% secant; ASTM D790
Tensile Impact Strength	256 kJ/m <sup>2</sup> @Temperature -40.0 °C	122 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ASTM D1822

Thermal Properties	Metric	English	Comments
Melting Point	124 °C	255 °F	ASTM D3418
Crystallization Temperature	106 °C	223 °F	ASTM D3418
Vicat Softening Point	95.0 °C	203 °F	ASTM D1525
Brittleness Temperature	>= -70.0 °C	>= -94.0 °F	ASTM D746

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