

# ExxonMobil LL 6100

## Injection Molding LLDPE

### Material Description

**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.

### Typical Applications

Housewares  
Closures and dispensers  
Protective caps

Resin Properties	Test Based On <sup>3</sup>	Units	Typical Value <sup>1</sup>
Melt Index	ASTM D-1238 (190°C, 2.16 kg)	g/10 min.	20
Density	ASTM D-4883	g/cm <sup>3</sup>	0.925
Melting Point	ExxonMobil Method	°C (°F)	124 (255)

### Molded Properties<sup>2</sup>

Flexural Modulus 1% Secant	ASTM D-790 Procedure B	MPa (psi)	260 (37,350)
Tensile Yield Stress	ASTM D-638	MPa (psi)	11.2 (1595)
Tensile Break Elongation	ASTM D-638	%	350
Tensile Impact @ - 40°C	ASTM D-1822	kJ/m <sup>2</sup> (ft-lb <sub>f</sub> /in <sup>2</sup> )	256 (122)
Brittleness Temperature	ASTM D-746	°C (°F)	< -70 (< -94)
Environmental Stress Crack Resistance, F <sub>50</sub>	ASTM D-1693 Cond. B, 10%	hr	< 1
Vicat Softening	D-1525	°C (°F)	94.8 (203)

1. Values given are typical and should not be interpreted as specification. Values may change with future grade development.
2. Properties are based on injection molded samples.
3. ASTM test procedures may be modified to accommodate operating conditions or facility limitations.

### Food Packaging

Grades have FDA compliance. Restrictions may apply, contact your ExxonMobil representative for more details.