ExxonMobil™ LLDPE LL 6407.67

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LL 6407.67 resin is a narrow molecular weight hexene copolymer designed for applications that require outstanding environmental stress crack resistance. This resin offers good processability with minimal warpage and outstanding toughness for cold temperature durability.

General

Additive	▪ Thermal Stabilizer: Yes	
Applications	▪ Caps and Closures ▪ Cargo handling boxes	▪ Large Lids ▪ Large Part Housewares
Form(s)	▪ Pellets	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.936	g/cm³	0.936	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	6.8	g/10 min	6.8	g/10 min	ASTM D1238
Peak Melting Temperature	259	°F	126	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	228	°F	109	°C	ASTM D1525

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield	2600	psi	18	MPa	ASTM D638
Elongation at Break	760	%	760	%	ASTM D638
Flexural Modulus					ASTM D790B
1% Secant	96000	psi	660	MPa	
2% Secant	82000	psi	570	MPa	
Environmental Stress-Crack Resistance					ASTM D1693B
10% Igepal, F50	> 1000	hr	> 1000	hr	

Additional Information

- Properties are based on compression molded samples.
- Test procedures may be modified to accommodate operating conditions or facility limitations.
- Tensile Strength at Yield and Elongation at Break tested using ASTM D638 Type IV, 50 mm/min.