ExconMobil

ExxonMobil™ LLDPE LL 6301 Series Molding

Linear Low Density Polyethylene Resin

Product Description

LL 6301 series are medium density LLDPE grades, with a relatively high molecular weight, resulting in molded articles which are very tough and exhibit excellent environmental stress cracking resistance. When compared to LDPE grades of equivalent density, LL 6301 grades exhibits a higher heat deflection temperature and a significantly greater resistance to long term creep.

General					
Additive	 LL 6301XR Molding: Stabilizer: Yes 	Thermal	 LL 6301RQ Molding: There Stabilizer: Yes 	mal	
Applications	 Caps Compounding (RQ version) 		HousewaresTechnical Parts	Threaded Closures	
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.936	g/cm³	0.936	g/cm³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	5.0	g/10 min	5.0	g/10 min	ASTM D1238
Peak Melting Temperature	257	°F	125	°C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	234	°F	112	°C	ISO 306
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress at Yield	2000	psi	14	MPa	ISO 527-2/1A/50
Tensile Strain at Yield	20	%	20	%	ISO 527-2/1A/50
Tensile Strain at Break	>100	%	> 100	%	ISO 527-2/1A/50
Flexural Modulus	64000	psi	440	MPa	ISO 178
Environmental Stress-Crack Resistance					ASTM D1693
122°F (50°C), 10% Igepal	40	hr	40	hr	
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact Strength	24	ft·lb/in²	50	kJ/m²	ISO 180/1A



