Ex on Mobil

ExxonMobil™ LLDPE LL 6101 Series

Linear Low Density Polyethylene Resin

Product Description

LL 6101 series are medium flow LLDPE grades, which offer excellent stiffness, heat distortion resistance and good environmental stress crack resistance. The excellent toughness and ESCR make LL 6101 grades an excellent blend partner for HDPE, where it can enhance the ESCR of items like buckets and lids.

General					
Availability ¹	 Africa & Middle East 		 Asia Pacific 	 Europe 	
Additive	 LL 6101XR: Thermal Yes 	Stabilizer:	 LL 6101RQ: Thermal Stabi Yes 	lizer:	
Applications	 Bottle Caps Compounding (RQ v Containers 	ersion)	Door MatsDust BinsLarge Part Housewares	• Lids	
Revision Date	• 03/01/2013				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.924	g/cm³	0.924	g/cm³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	20	g/10 min	20	g/10 min	ASTM D1238
Peak Melting Temperature	252	°F	122	°C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	201	°F	94	°C	ISO 306
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress at Yield	1500	psi	10	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	38000	psi	260	MPa	ISO 178
Environmental Stress-Crack Resistance					ASTM D1693
122°F (50°C), 10% Igepal	20	hr	20	hr	
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact Strength	23	ft·lb/in²	48	kJ/m²	ISO 180/1A

Additional Information

The molded properties were measured on 4 mm (157.5 mil) thick injection molded specimen based on ISO 1872-2. ESCR was measured on 3 mm (117 mil) thick compression molded plate

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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