

ExxonMobil™ LLDPE LL 6101 Series

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: Heat		 LL 6101RQ: Heat 		
	Stabilizer: Yes		Stabilizer: Yes		
Revision Date	3/2007				
Resin Properties	Typical Value	(English)	Typica	al Value (SI)	Test Based On
Melt Index (190°C/2.16 kg)	20	g/10 min		20 g/10 min	ASTM D1238
Density	0.924	g/cm³		0.924 g/cm ³	ExxonMobil Method
Peak Melting Temperature	253	°F		123 °C	ExxonMobil Method
Thermal	Typical Value	(English)	Typica	al Value (SI)	Test Based On
Vicat Softening Temperature	205	°F		96.0 °C	ISO 306
Molded Properties	Typical Value	(English)	Typica	al Value (SI)	Test Based On
Tensile Stress (Yield)	1450	psi		10.00 MPa	ISO 527-1, -2
Tensile Strain (Yield)	19	%		19 %	ISO 527-1, -2
Tensile Strain (Break)	100	%		100 %	ISO 527-1, -2
Flexural Modulus	37700	psi		260 MPa	ISO 178
Environmental Stress-Cracking Resistance	•				ASTM D1693
10% Igepal	40.0	hr		40.0 hr	
Impact	Typical Value	(English)	Typica	al Value (SI)	Test Based On
Notched Izod Impact Strength	22.4	ft-lb/in²		47.0 kJ/m²	ISO 180

Additional Properties

Applications:

- large housewares
- bottle caps
- containers
- door mats
- dustbins
- compounding applications (RQ version)

Processing Statement

The molded properties were measured on 4 mm (157.5 mil) thick injection molded specimen based on ISO 1872-2. ESCR was measured on 2 mm (78.7 mil) thick compression molded plate.

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

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ExxonMobil Chemical ExxonMobil™ LLDPE LL 6101 Series

Foodlaw & Medical Use Statement

LL 6101 Series can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

ExxonMobil Polyethylene is not intended for use in medical applications.

Notes

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

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