

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 Stabilizer: Yes	• LL 6101RQ: Thermal Stabilizer: Yes	
Applications	• Bottle Caps • Compounding (RQ version) • Containers	• Door Mats • Dust Bins • Large Part Housewares	• Lids
Revision Date	• March 2010		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.924 g/cm ³	0.924 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	20 g/10 min	20 g/10 min	ASTM D1238
Peak Melting Temperature	253 °F	123 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	205 °F	96.0 °C	ISO 306

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	1450 psi	10.0 MPa	ISO 527-2/1A/50
Tensile Strain at Yield	19 %	19 %	ISO 527-2
Tensile Strain at Break	100 %	100 %	ISO 527-2/1A
Flexural Modulus	37700 psi	260 MPa	ISO 178
Environmental Stress-Crack Resistance 10% Igepal	40.0 hr	40.0 hr	ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength	22.4 ft·lb/in ²	47.0 kJ/m ²	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 2 mm (78.7 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.

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

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Notes

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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