

ExxonMobil™ LLDPE LL 8460 Series

Linear Low Density Polyethylene Resin

Product Description

ExxonMobil™ LLDPE LL 8460 is a linear low density hexene copolymer designed to offer excellent ESCR and toughness. This resin is ideally suited for applications that require the optimum balance of processability, stiffness and low temperature toughness.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> LL 8460,29: Long Term UV-20 Stabilizer: Yes LLP8460,29: Long Term UV-20 Stabilizer: Yes
Applications	<ul style="list-style-type: none"> Agricultural Tanks Chemical Storage Tanks Large Size Playground Equipment Pallets Potable Water Tanks Septic Tanks
Form(s)	<ul style="list-style-type: none"> LL 8460,29: Pellets LLP8460,29: Powder
Revision Date	<ul style="list-style-type: none"> 09/29/2022

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.938 g/cm ³	0.938 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.3 g/10 min	3.3 g/10 min	ASTM D1238 (mod)

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	129 °F	54 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	99 °F	37 °C	ASTM D648
Peak Melting Temperature	260 °F	127 °C	ExxonMobil Method

Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (50 mm/min)	2600 psi	18 MPa	ASTM D638
Elongation at Yield (2.0 in/min (50 mm/min))	10 %	10 %	ASTM D638
Flexural Modulus - 1% Secant	99000 psi	680 MPa	ASTM D790B
Environmental Stress-Crack Resistance			ASTM D1693A
10% Igepal, F50	60 hr	60 hr	
100% Igepal, F50	> 1000 hr	> 1000 hr	

Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Impact Strength			ARM
-40°F (-40°C), 0.125 in (3.18 mm)	39 ft·lb	53 J	
-40°F (-40°C), 0.250 in (6.35 mm)	114 ft·lb	154 J	

Additional Information

All physical properties were measured on 3 mm. rotomolded samples except for ESCR, which was measured on compression molded samples.

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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