ExxonMobil™ LLDPE LL 8460 Series

Linear Low Density Polyethylene Resin

Product Description

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]	▪ Latin America	▪ North America	
Additive	▪ LLP8460.29: Long Term UV-15 Stabilizer: Yes	▪ LL 8460.29: Long Term UV-15 Stabilizer: Yes	
Applications	▪ Agricultural Tanks ▪ Chemical Storage Tanks	▪ Large Size Playground Equipment ▪ Pallets	▪ Potable Water Tanks ▪ Septic Tanks
Revision Date	▪ 09/01/2014		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.938	g/cm³	0.938	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	3.3	g/10 min	3.3	g/10 min	ASTM D1238

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	100	°F	38	°C	ASTM D648
Peak Melting Temperature	259	°F	126	°C	ASTM D3418

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (50 mm/min)	2500	psi	17	MPa	
Elongation at Yield (2.0 in/min (50 mm/min))	10	%	10	%	ASTM D638
Flexural Modulus - 1% Secant	93000	psi	640	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)	64	ft·lb	87	J	
-40°F (-40°C), 0.250 in (6.35 mm)	190	ft·lb	258	J	

Additional Information

- All physical properties were measured on 3 mm. rotomolded samples unless a different value is shown, except for ESCR, which was measured on compression molded samples.
- Tensile testing was conducted at a crosshead speed of 50 mm/min. The tensile strength reported refers to the maximum stress reached during the test.
- Test procedures may be modified to accommodate operating conditions or facility limitations.

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.

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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.

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

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