

# 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 <sup>1</sup>	• Latin America	• North America	• South America
Additive	• LL 8460.29: Long Term UV-8 Stabilizer: Yes	• LLP8460.29: Long Term UV-8 Stabilizer: Yes	
Applications	• Agricultural Tanks • Chemical Storage Tanks	• Large Size Playground Equipment • Pallets	• Potable Water Tanks • Septic Tanks
Revision Date	• 2/2007		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.938 g/cm <sup>3</sup>	0.938 g/cm <sup>3</sup>	ASTM D4883
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	--	144 °F	62.0 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	--	102 °F	39.0 °C	ASTM D648
Melting Temperature	261 °F	127 °C	ASTM D3418	

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	2600 psi	17.9 MPa	ASTM D638
Elongation at Yield	18 %	18 %	ASTM D638
Flexural Modulus - 1% Secant	112000 psi	771 MPa	ASTM D790B
Environmental Stress-Crack Resistance			ASTM D1693A
10% Igepal, F50	145 hr	145 hr	
100% Igepal, F50	> 1000 hr	> 1000 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Impact Strength			ARM
0.125 in (3.18 mm), -40.0°F (-40.0°C)	70 ft-lb	95 J	
0.250 in (6.35 mm), -40.0°F (-40.0°C)	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.

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

© 2009 Exxon Mobil Corporation. To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a Web site. ExxonMobil does not guarantee the typical (or other) values. Analysis may be performed on representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication. The terms, "we", "our", "ExxonMobil Chemical", or "ExxonMobil" are used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates they directly or indirectly steward. ExxonMobil, the ExxonMobil Chemical Emblem, the "Interlocking X" Device, Enable, Exceed, Exact, Exxco, Escorene, Escor, Iotek, NTX, Polybilt, Paxon and Optema are trademarks or service marks of Exxon Mobil Corporation.

# ExxonMobil Chemical ExxonMobil™ LLDPE LL 8460 Series Linear Low Density Polyethylene Resin

---

## Legal Statement

---

LL 8460 Series grade can - in principle - be used in food contact applications in the USA (FDA) and in Canada (HPB). 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

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

---

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

© 2009 Exxon Mobil Corporation. To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a Web site. ExxonMobil does not guarantee the typical (or other) values. Analysis may be performed on representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication. The terms, "we", "our", "ExxonMobil Chemical", or "ExxonMobil" are used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates they directly or indirectly steward. ExxonMobil, the ExxonMobil Chemical Emblem, the "Interlocking X" Device, Enable, Exceed, Exact, Exxco, Escorene, Escor, Iotek, NTX, Polybilt, Paxon and Optema are trademarks or service marks of Exxon Mobil Corporation.