

Note: The specifications shown below are typical of the material used in production of the Rainmaker Guzzler. While suppliers may change, the material specifications will remain very similar or exceed the following.

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	• 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	• March 2010		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.938 g/cm ³	0.938 g/cm ³	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			ASTM D648
–	144 °F	62.0 °C	
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed			ASTM D648
–	102 °F	39.0 °C	
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
-40°F (-40°C), 0.125 in (3.18 mm)	70 ft-lb	95 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.

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

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