

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

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		

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	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 2.0 in/min (50 mm/min)	2500 psi	17 MPa	ASTM D638
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	

