

ExxonMobil™ LLDPE LL 8450 Series

Linear Low Density Polyethylene Resin

Product Description

LL 8450 Series are linear low density hexene copolymer designed to offer excellent stiffness, processability, whiteness, and ESCR. They are ideally suited for applications that require the optimum balance of stiffness and processability.

General

Additive	- LLP8450.32: Long Term UV-10 Stabilizer: Yes - LL 8450.32: Long Term UV-10 Stabilizer: Yes		
Applications	- Consumer Articles - Junction Boxes	- Playground Equipment - Potable Water Tanks	Small Storage Boxes

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.937 g/cm ³	0.937 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	122 °F	50 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	97 °F	36 °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)	2400 psi	17 MPa	ASTM D638
Elongation at Yield (2.0 in/min (50 mm/min))	20 %	20 %	ASTM D638
Flexural Modulus - 1% Secant	90000 psi	620 MPa	ASTM D790B
Environmental Stress-Crack Resistance			ASTM D1693A
10% Igepal, F50	60 hr	60 hr	
100% Igepal, F50	> 980 hr	> 980 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Impact Strength			ARM
-40°F (-40°C), 0.125 in (3.18 mm)	60 ft·lb	81 J	
-40°F (-40°C), 0.250 in (6.35 mm)	160 ft·lb	217 J	

