

ExxonMobil™ LLDPE LL 8555 Series

Linear Low Density Polyethylene Resin

Product Description

LL 8555 is a linear low density hexene copolymer designed to offer superior processability, excellent dimensional control, whiteness and low warpage. This resin is ideally suited for applications that require excellent surface appearance and the optimum balance of ESCR, toughness and stiffness properties.

General					
Availability ¹	Latin America		North America		
Additive •	LLP8555.25: Long Term UV-8 Stabilizer: Yes		LL 8555.25: Long Term UV-8 Stabilizer: Yes		
	Consumer Articles Fine Threaded Containers		Playground EquipmentPoint of Display Cabinets		
Revision Date	09/01/2014				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.936	g/cm³	0.936	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.8	g/10 min	6.8	g/10 min	ASTM D1238 (mod)
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	126	°F	52	°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					ASTM D638
2.0 in/min (50 mm/min)	2300	psi	16	MPa	
Elongation at Yield (2.0 in/min (50 mm/min))	10	%	10	%	ASTM D638
Flexural Modulus - 1% Secant	83000	psi	570	MPa	ASTM D790B
Environmental Stress-Crack Resistance					ASTM D1693A
10% Igepal, F50	50	hr	50	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)	59	ft·lb	80	J	
-40°F (-40°C), 0.250 in (6.35 mm)	150	ft·lb	203	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.

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