ExxonMobil Signature Polymers

ExxonMobil™ C6LL 3338 Series

(Legacy name: ExxonMobil™ LLDPE LL 8460 Series)

C6 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C6LL 3338 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	
Additive	▪ C6LL 3338.UV: Long Term UV-20 Stabilizer: Yes	▪ C6LL 3338p.UV: Long Term UV-20 Stabilizer: Yes	
Applications	▪ Agricultural Tanks ▪ Chemical Storage Tanks	▪ Large Size Playground Equipment ▪ Pallets	▪ Potable Water Tanks ▪ Septic Tanks
Form(s)	▪ C6LL 3338.UV: Pellets	▪ C6LL 3338p.UV: Powder	
Revision Date	▪ 09/29/2022		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.938	g/cm³	0.938	g/cm³	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	99	°F	37	°C	ASTM D648
Peak Melting Temperature	260	°F	127	°C	ExxonMobil Method

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (50 mm/min)	2600	psi	18	MPa	
Elongation at Yield (2.0 in/min (50 mm/min))	10	%	10	%	ASTM D638
Flexural Modulus - 1% Secant	99000	psi	680	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)	39	ft·lb	53	J	
-40°F (-40°C), 0.250 in (6.35 mm)	114	ft·lb	154	J	

Additional Information

All physical properties were measured on 3 mm. rotomolded samples except for ESCR, which was measured on compression molded samples.

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.

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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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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