ExxonMobil Signature Polymers

ExxonMobil™ C6LL 2017.39

(Legacy name: ExxonMobil™ LLDPE LL 3002.39)

C6 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C6LL 2017.39 is a hexene copolymer LLDPE cast film resin. Films made from ExxonMobil™ C6LL 2017.39 resin have outstanding tensile and toughness properties. These superior properties, along with the excellent drawability, make it a versatile packaging film resin.

General

Availability [1]	▪ North America		
Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: No ▪ Thermal Stabilizer: Yes	
Applications	▪ Cast Film	▪ Cast Stretch Film	▪ Packaging Films
Form(s)	▪ Pellets		
Revision Date	▪ 05/31/2024		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density / Specific Gravity	0.917	g/cm³	0.917	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Peak Melting Temperature	255	°F	124	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	201	°F	94.0	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1100	psi	7.9	MPa	ASTM D882
Tensile Strength at Yield TD	1200	psi	8.1	MPa	ASTM D882
Tensile Strength at Break MD	7500	psi	50	MPa	ASTM D882
Tensile Strength at Break TD	4900	psi	34	MPa	ASTM D882
Elongation at Break MD	460	%	460	%	ASTM D882
Elongation at Break TD	770	%	770	%	ASTM D882
Secant Modulus MD - 1% Secant	21000	psi	140	MPa	ASTM D882
Secant Modulus TD - 1% Secant	22000	psi	150	MPa	ASTM D882
Dart Drop Impact	90	g	90	g	ASTM D1709A
Elmendorf Tear Strength MD	270	g	270	g	ASTM D1922
Elmendorf Tear Strength TD	600	g	600	g	ASTM D1922
Puncture Force	9	lbf	40	N	ExxonMobil Method
Puncture Energy	30	in·lb	3.4	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	90		90		ASTM D2457
Haze	2.5	%	2.5	%	ASTM D1003

Legal Statement

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

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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Processing Statement

Film (0.8 mil / 20 micron) made on a 3.5 inch cast film line with a 5.5 inch melt curtain, 80°F (27°C) chill roll temperature at a 750 ft/min (229 m/min) take-off speed and a melt temperature between 395-415°F (201-213°C).

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.

For additional technical, sales and order assistance: Contact Us

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