Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ C6LL 1017.32 Cast

C6 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C6LL 1017.32 is an ethylene 1-hexene copolymer linear low density polyethylene resin designed for the blown or cast film process. Films made from ExxonMobil™ C6LL 1017.32 resin have outstanding tensile and toughness properties. These superior properties, along with excellent drawability, make ExxonMobil™ C6LL 1017.32 a versatile packaging film resin.

General

Availability [1]	▪ Latin America	▪ North America
Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: No ▪ Thermal Stabilizer: Yes
Applications	▪ Freezer Film ▪ Heavy Duty Bags	▪ Ice Bags ▪ Trash Bags
Form(s)	▪ Pellets	
Revision Date	▪ 06/11/2020	

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)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Peak Melting Temperature	253	°F	123	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	208	°F	98.0	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1200	psi	8.5	MPa	ASTM D882
Tensile Strength at Yield TD	1200	psi	8.0	MPa	ASTM D882
Tensile Strength at Break MD	9200	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	5900	psi	41	MPa	ASTM D882
Elongation at Break MD	380	%	380	%	ASTM D882
Elongation at Break TD	800	%	800	%	ASTM D882
Secant Modulus MD - 1% Secant	20000	psi	130	MPa	ASTM D882
Secant Modulus TD - 1% Secant	22000	psi	150	MPa	ASTM D882
Dart Drop Impact	110	g	110	g	ASTM D1709A
Elmendorf Tear Strength MD	300	g	300	g	ASTM D1922
Elmendorf Tear Strength TD	690	g	690	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°)	88		88		ASTM D2457
Haze	2.2	%	2.2	%	ASTM D1003

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.

Processing Statement

Film (0.8 mil / 20 micron) made from ExxonMobil™ C6LL 1017.32 resin on a 3.5 inch cast film line with a 8.25 inch melt curtain, 80°F (27°C) chill roll temperature at a 160 ft/min (49 m/min) take-off speed and a melt temperature of 560°F (293°C).

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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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.

For additional technical, sales and order assistance: Contact Us

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