ExxonMobil Signature Polymers

ExxonMobil™ C4LL 2018.XBU

C4 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C4LL 2018.XBU resin is an ethylene 1-butene linear low density polyethylene designed for the blown film process. It offers highgloss and excellent draw down. Films made from C4LL 2018.XBU have very good tensile and toughness properties. TnPP is not intentionaladded to C4LL 2018.XBU resin.

General

Availability [1]	▪ Asia Pacific	▪ Latin America	
Additive	▪ Antiblock: 3500 ppm ▪ Slip: 1500 ppm	▪ Processing Aid: No ▪ Thermal Stabilizer: Yes	
Applications	▪ Agricultural Film ▪ Bag in Box ▪ Blown Film ▪ Cast Film ▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ Freezer Film	▪ Garment Film ▪ General Packaging ▪ Industrial Packaging ▪ Institutional Can Liners ▪ Lamination Film ▪ Liners ▪ Mulch Film	▪ Multilayer Packaging Film ▪ Packaging Films ▪ Personal Care ▪ Produce Bags On A Roll ▪ Shoppers ▪ Trash Can Liners
Form(s)	▪ Pellets		
Revision Date	▪ 06/11/2020		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.918	g/cm³	0.918	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0	g/10 min	2.0	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	201	°F	94.0	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1300	psi	8.7	MPa	ASTM D882
Tensile Strength at Yield TD	1400	psi	9.8	MPa	ASTM D882
Tensile Strength at Break MD	5200	psi	36	MPa	ASTM D882
Tensile Strength at Break TD	3800	psi	27	MPa	ASTM D882
Elongation at Break MD	620	%	620	%	ASTM D882
Elongation at Break TD	770	%	770	%	ASTM D882
Secant Modulus MD - 1% Secant	25000	psi	170	MPa	ASTM D882
Secant Modulus TD - 1% Secant	31000	psi	210	MPa	ASTM D882
Dart Drop Impact	< 60	g	< 60	g	ASTM D1709A
Elmendorf Tear Strength MD	110	g	110	g	ASTM D1922
Elmendorf Tear Strength TD	390	g	390	g	ASTM D1922
Puncture Force	5	lbf	21	N	ExxonMobil Method
Puncture Energy	7.1	in·lb	0.80	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	28		28		ASTM D2457
Haze	23	%	23	%	ASTM D1003

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Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

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.

Processing Statement

Film (1.0 mil/25.4 micron) made from LL 1002xBU resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 395-415°F (202-213°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

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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