ExxonMobil Signature Polymers

ExxonMobil™ C4LL 1018 Series

(Legacy name: ExxonMobil™ LLDPE LL 1001 Series)

C4 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C4LL 1018 Series are butene LLDPE blown film resins that have good drawdown. Films made from ExxonMobil™ C4LL 1018 resins exhibit good tensile and toughness properties.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ ExxonMobil™ C4LL 1018.76: Antiblock: 7000 ppm; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes ▪ ExxonMobil™ C4LL 1018.74: Antiblock: 5000 ppm; Slip: 1700 ppm; Processing Aid: No; Thermal Stabilizer: Yes ▪ ExxonMobil™ C4LL 1018.31: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes ▪ ExxonMobil™ C4LL 1018.26: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes		
Applications	▪ Agricultural Film ▪ Bag in Box ▪ Barrier Food Packaging ▪ Blown Film ▪ Bread Bags ▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ Freezer Film	▪ Garment Film ▪ General Packaging ▪ Heavy Duty Bags ▪ Ice Bags ▪ Industrial Liners ▪ Industrial Packaging ▪ Lamination Film ▪ Liners	▪ Multilayer Packaging Film ▪ Packaging Films ▪ Produce Bags ▪ Refuse Bags ▪ Shoppers ▪ Stand Up Pouches ▪ Trash Bags
Revision Date	▪ 06/11/2020		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density / Specific Gravity	0.918	g/cm³	0.918	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	250	°F	121	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	210	°F	99.0	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1400	psi	9.6	MPa	ASTM D882
Tensile Strength at Yield TD	1400	psi	10	MPa	ASTM D882
Tensile Strength at Break MD	7300	psi	50	MPa	ASTM D882
Tensile Strength at Break TD	5200	psi	36	MPa	ASTM D882
Elongation at Break MD	570	%	570	%	ASTM D882
Elongation at Break TD	870	%	870	%	ASTM D882
Secant Modulus MD - 1% Secant	28000	psi	190	MPa	ASTM D882
Secant Modulus TD - 1% Secant	33000	psi	230	MPa	ASTM D882
Dart Drop Impact	90	g	90	g	ASTM D1709A
Elmendorf Tear Strength MD	90	g	90	g	ASTM D1922
Elmendorf Tear Strength TD	450	g	450	g	ASTM D1922
Puncture Force	9	lbf	40	N	ExxonMobil Method
Puncture Energy	25	in·lb	2.9	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	45		45		ASTM D2457
Haze	14	%	14	%	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.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

Film (1.0 mil/25.4 micron) made from ExxonMobil™ C4LL 1018.26 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperatureof 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: www.exxonmobilchemical.com/ContactUs

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