Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ C4LL 3625 Series

C4 Linear Low Density Polyethylene

Product Description

ExxonMobil™ C4LL 3625 Series are ethylene 1-butene linear low density polyethylene resins with increased stiffness and a higher melt index. These resins can be used alone or as a component in blown or cast packaging and industrial film.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ ExxonMobil™ C4LL 3625.85: Antiblock: No; Slip: 400 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes ▪ ExxonMobil™ C4LL 3625.86: Antiblock: 6000 ppm; Slip: 1500 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes ▪ ExxonMobil™ C4LL 3625.84: Antiblock: No; Slip: 400 ppm; Processing Aid: No; Thermal Stabilizer: Yes		
Applications	▪ Blown Film ▪ Bread Bags ▪ Cast Film	▪ Food Packaging ▪ Packaging Films ▪ Paper Overwrap	▪ Zipper Bag
Form(s)	▪ Pellets		
Revision Date	▪ 06/11/2020		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.925	g/cm³	0.925	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	3.6	g/10 min	3.6	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	212	°F	100	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1500	psi	10	MPa	ASTM D882
Tensile Strength at Yield TD	1500	psi	10	MPa	ASTM D882
Tensile Strength at Break MD	5800	psi	40	MPa	ASTM D882
Tensile Strength at Break TD	3600	psi	25	MPa	ASTM D882
Elongation at Break MD	530	%	530	%	ASTM D882
Elongation at Break TD	810	%	810	%	ASTM D882
Secant Modulus MD - 1% Secant	30000	psi	200	MPa	ASTM D882
Secant Modulus TD - 1% Secant	33000	psi	220	MPa	ASTM D882
Dart Drop Impact	< 60	g	< 60	g	ASTM D1709A
Elmendorf Tear Strength MD	30	g	30	g	ASTM D1922
Elmendorf Tear Strength TD	280	g	280	g	ASTM D1922
Puncture Force	6	lbf	28	N	ExxonMobil Method
Puncture Energy	14	in·lb	1.6	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss	91		91		ASTM D2457
Haze	2.3	%	2.3	%	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.

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

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Processing Statement

Film (0.8 mil / 20 micron) made from ExxonMobil™ C4LL 3625.85 resin on a 3.5 inch cast film line with a 8.25 in (21 cm) melt curtain, 80°F (27°C) chill roll temperature at a 365 ft/min (111 m/min) take-off speed and a melt temperature of 527°F (275°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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Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene