Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ SC6LL Series

C6 Linear Low Density Polyethylene

Product Description

ExxonMobil™ SC6LL Super Strength Series are ethylene 1-hexene linear low density polyethylene resins designed for applications requiring exceptional strength, especially tear, for maximum downgauging potential. ExxonMobil™ SC6LL resins are formulated with slip and antiblock, both with and without processing aid, for use in all high performance film applications.

General

Availability [1]	▪ Latin America	▪ North America
Additive	▪ ExxonMobil™ SC6LL 0917.41: Antiblock: 6500 ppm; Slip: 1400 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes ▪ ExxonMobil™ SC6LL 0917.95: Antiblock: 8000 ppm; Slip: 1400 ppm; Processing Aid: No; Thermal Stabilizer: Yes	
Applications	▪ General Packaging ▪ Ice Bags	▪ Trash Bags ▪ Trash Can Liners
Form(s)	▪ Pellets	
Revision Date	▪ 10/01/2019	

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.917	g/cm³	0.917	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.90	g/10 min	0.90	g/10 min	ASTM D1238
Peak Melting Temperature	255	°F	124	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1200	psi	8.6	MPa	ASTM D882
Tensile Strength at Yield TD	1200	psi	8.6	MPa	ASTM D882
Tensile Strength at Break MD	8100	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	6800	psi	47	MPa	ASTM D882
Elongation at Break MD	550	%	550	%	ASTM D882
Elongation at Break TD	710	%	710	%	ASTM D882
Secant Modulus MD - 1% Secant	23000	psi	160	MPa	ASTM D882
Secant Modulus TD - 1% Secant	24000	psi	170	MPa	ASTM D882
Dart Drop Impact	580	g	580	g	ASTM D1709A
Elmendorf Tear Strength MD	390	g	390	g	ASTM D1922
Elmendorf Tear Strength TD	410	g	410	g	ASTM D1922
Puncture Force	8	lbf	36	N	ExxonMobil Method
Puncture Energy	22	in·lb	2.5	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	33		33		ASTM D2457
Haze	25	%	25	%	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 (1 mil/25.4 micron) made from ExxonMobil™ SC6LL 0917.41 resin on a 3.5 in (88.9 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 445°F (229°C), a 90 mil (2.3 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.

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

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For additional technical, sales and order assistance: Contact Us

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