Product Datasheet

ExxonMobil Signature Polymers

Exceed™ m 3518.CB Cast

Metallocene Polyethylene

Product Description

Exceed™ m 3518 resins are ethylene 1-hexene copolymers. Films made from Exceed™ m 3518 resins have outstanding tensile properties and impact and puncture toughness. These superior properties, along with excellent drawability, make these resins versatile for both monolayer and multilayer cast packaging film.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Exceed™ m 3518.CB: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes		
Applications	▪ Bag in Box ▪ Barrier Food Packaging ▪ Blown Film ▪ Cast Film	▪ Cast Stretch Film ▪ Diaper Backsheet ▪ Food Packaging ▪ Form Fill And Seal Packaging	▪ Hygiene film ▪ Packaging Films ▪ Personal Care
Revision Date	▪ 02/23/2018		

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)	3.5	g/10 min	3.5	g/10 min	ASTM D1238
Peak Melting Temperature	237	°F	114	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1200	psi	8.3	MPa	ASTM D882
Tensile Strength at Yield TD	1100	psi	7.6	MPa	ASTM D882
Tensile Strength at Break MD	11000	psi	70	MPa	ASTM D882
Tensile Strength at Break TD	6800	psi	47	MPa	ASTM D882
Elongation at Break MD	510	%	510	%	ASTM D882
Elongation at Break TD	680	%	680	%	ASTM D882
Secant Modulus MD - 1% Secant	16000	psi	110	MPa	ASTM D882
Secant Modulus TD - 1% Secant	18000	psi	120	MPa	ASTM D882
Dart Drop Impact	140	g	140	g	ASTM D1709A
Elmendorf Tear Strength MD	190	g	190	g	ASTM D1922
Elmendorf Tear Strength TD	500	g	500	g	ASTM D1922
Puncture Force	11	lbf	47	N	ExxonMobil Method
Puncture Energy	38	in·lb	4.3	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	86		86		ASTM D2457
Haze	2.4	%	2.4	%	ASTM D1003

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 (0.8 mil / 20 micron) made from Exceed 3518CB on a 3.5 inch cast line at a 5.5 inch melt curtain length, 530-590°F (277-310°C) melt temperature, 80°F chill roll temperature and 750 fpm line speed.

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