Product Datasheet

ExxonMobil Signature Polymers

Exceed™ m 1518.MA

Metallocene Polyethylene

Product Description

Exceed™ m 1518.MA resin is an ethylene 1-hexene copolymer. Films made from Exceed™ m 1518.MA resin have outstanding tensile, impact strength and puncture. These superior strength properties, along with excellent drawability, makes this resin a very versatile packaging film resin. TnPP is not intentionally added to Exceed™ m 1518.MA resin.

General

Availability [1]	▪ Asia Pacific	▪ Latin America	▪ North America
Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: Yes ▪ Thermal Stabilizer: Yes	
Applications	▪ Bag in Box ▪ Barrier Food Packaging ▪ Blown Film ▪ Blown Stretch Film	▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ General Packaging ▪ Heavy Duty Bags	▪ Ice Bags ▪ Packaging Films ▪ Premium Trash Bags ▪ Stand Up Pouches
Form(s)	▪ Pellets		
Revision Date	▪ 11/01/2018		

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)	1.5	g/10 min	1.5	g/10 min	ASTM D1238
Peak Melting Temperature	244	°F	118	°C	ExxonMobil Method

Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	225	°F	107	°C	ASTM D1525

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1300	psi	9.1	MPa	ASTM D882
Tensile Strength at Yield TD	1400	psi	9.4	MPa	ASTM D882
Tensile Strength at Break MD	8600	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	7900	psi	50	MPa	ASTM D882
Elongation at Break MD	540	%	540	%	ASTM D882
Elongation at Break TD	660	%	660	%	ASTM D882
Secant Modulus MD - 1% Secant	26000	psi	180	MPa	ASTM D882
Secant Modulus TD - 1% Secant	28000	psi	190	MPa	ASTM D882
Dart Drop Impact	610	g	610	g	ASTM D1709A
Elmendorf Tear Strength MD	300	g	300	g	ASTM D1922
Elmendorf Tear Strength TD	430	g	430	g	ASTM D1922
Puncture Force	12	lbf	51	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°)	26		26		ASTM D2457
Haze	> 30	%	> 30	%	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.

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.

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

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Processing Statement

Film (1 mil/25.4 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 390-410°F (199-210°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.61 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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Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene