Product Datasheet

ExxonMobil Signature Polymers

Exceed™ m 3518.PA Cast

Metallocene Polyethylene

Product Description

Exceed™ m 3518.PA resin is an ethylene 1-hexene copolymer. Films made from Exceed m 3518.PA resin 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. TnPP is not intentionally added to Exceed m 3518.PA.

General

Availability [1]	▪ Asia Pacific ▪ Europe	▪ Latin America ▪ North America	
Additive	▪ Exceed™ m 3518.PA: 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	▪ 05/22/2018		

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 (60°)	86		86		ASTM D2457
Haze	2.4	%	2.4	%	ASTM D1003

Legal Statement

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.

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 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.

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

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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