ExxonMobil

Exceed™ 1018MA

Performance Polymer

Product Description

Exceed 1018MA is an ethylene 1-hexene copolymer. Films made from Exceed 1018MA have outstanding tensile, impact strength and puncture. These superior strength properties, along with excellent drawability, makes this a very versatile packaging film resin. TnPP is not intentionally added to Exceed 1018MA.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Exceed 1018MA: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes		
Applications	▪ Agricultural Film ▪ Bag in Box ▪ Barrier Food Packaging ▪ Blown Film ▪ Blown Stretch Film ▪ Bread Bags	▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ Freezer Film ▪ General Packaging ▪ Heavy Duty Bags ▪ Lamination Film	▪ Multilayer Packaging Film ▪ Overwrap Film ▪ Packaging Films ▪ Premium Trash Bags ▪ Stand Up Pouches ▪ Trash Bags
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)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Peak Melting Temperature	245	°F	118	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1400	psi	9.5	MPa	ASTM D882
Tensile Strength at Yield TD	1400	psi	9.7	MPa	ASTM D882
Tensile Strength at Break MD	8500	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	7700	psi	50	MPa	ASTM D882
Elongation at Break MD	480	%	480	%	ASTM D882
Elongation at Break TD	640	%	640	%	ASTM D882
Secant Modulus MD - 1% Secant	27000	psi	180	MPa	ASTM D882
Secant Modulus TD - 1% Secant	29000	psi	200	MPa	ASTM D882
Dart Drop Impact	590	g	590	g	ASTM D1709A
Elmendorf Tear Strength MD	250	g	250	g	ASTM D1922
Elmendorf Tear Strength TD	430	g	430	g	ASTM D1922
Puncture Force	11	lbf	50	N	ExxonMobil Method
Puncture Energy	35	in·lb	3.9	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	28		28		ASTM D2457
Haze	29	%	29	%	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).

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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 (1.79 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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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