ExonMobil

Exceed[™] 1018 Series Performance Polymer

Product Description

Exceed[™] 1018 are ethylene 1-hexene copolymer resins. Films made from Exceed[™] 1018 resins have outstanding tensile, impact strength and puncture. These superior strength properties, along with excellent drawability, allow downgauging in bag applications. TnPP is not intentionally added to Exceed[™] 1018 resins.

General				
Availability ¹	 Africa & Middle East 	 Europe 	 North Arr 	ierica
	 Asia Pacific 	 Latin America 		
Additive	 Exceed™ 1018MK: Antiblock: 5000 ppm; Slip: 1000 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes Exceed™ 1018MF: Antiblock: 4500 ppm; Slip: 450 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes Exceed™ 1018MJ: Antiblock: 4500 ppm; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes Exceed™ 1018MB: Antiblock: 2500 ppm; Slip: 800 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes 			
Applications	 Agricultural Film Bag in Box Barrier Food Packaging Blown Film Bread Bags Food Packaging Form Fill And Seal Packaging 	 Freezer Film General Packaging Heavy Duty Bags Industrial Packaging Lamination Film Multilayer Packaging Film Overwrap Film 	 Packaging Premium Stand Up Trash Bag Trash Can 	Trash Bags Pouches s
Revision Date	• 10/01/2018			
Resin Properties	Typical Value (Englisl	n) Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.918 g/cm ³		g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0 g/10 m	in 1.0	g/10 min	ASTM D1238
Peak Melting Temperature	247 °F	119	°C	ExxonMobil Method
ilm Properties	Typical Value (Englisl	n) Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1400 psi		MPa	ASTM D882
Tensile Strength at Yield TD	1400 psi	9.4	MPa	ASTM D882
Tensile Strength at Break MD	7900 psi	50	MPa	ASTM D882
Tensile Strength at Break TD	6200 psi	43	MPa	ASTM D882
Elongation at Break MD	500 %	500	%	ASTM D882
Elongation at Break TD	600 %	600	%	ASTM D882
Secant Modulus MD - 1% Secant	27000 psi	190	MPa	ASTM D882
Secant Modulus TD - 1% Secant	28000 psi	190	MPa	ASTM D882
Dart Drop Impact	460 g	460	g	ASTM D1709A
Elmendorf Tear Strength MD	250 g	250	g	ASTM D1922
Elmendorf Tear Strength TD	470 g	470	g	ASTM D1922
Puncture Force	8 lbf	36	Ν	ExxonMobil Method
Puncture Energy	16 in·lb	1.8	J	ExxonMobil Method
Optical Properties	Typical Value (Englisl	n) Typical Value	(SI)	Test Based On
Gloss (45°)	39	39		ASTM D2457
Haze	18 %	18	%	ASTM D1003

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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.

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 403°F (206°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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