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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. ThPP is not intentionally added to Exceed 1018MA.

General			
Availability ¹	 Africa & Middle East 	 Europe 	 North America
	Asia Pacific	 Latin 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 Packagir 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 (Englis		
Density	0.918 g/cm ³	0.918	5
Melt Index (190°C/2.16 kg)	1.0 g/10 m		g/10 min ASTM D1238
Peak Melting Temperature	245 °F	118	°C ExxonMobil Method
Film Properties	Typical Value (Englis	h) Typical Value	(SI) Test Based On
Tensile Strength at Yield MD	1400 psi		MPa ASTM D882
Tensile Strength at Yield TD	1400 psi		MPa ASTM D882
Tensile Strength at Break MD	8500 psi	60	MPa ASTM D882
Tensile Strength at Break TD	7700 psi	50	
Elongation at Break MD	480 %	480	% ASTM D882
Elongation at Break TD	640 %	640	% ASTM D882
Secant Modulus MD - 1% Secant	27000 psi		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	
Puncture Energy	35 in·lb	3.9	J ExxonMobil Method
Optical Properties	Typical Value (Englis	h) 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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Exceed™ 1018MA Performance Polvmer

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.

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