

Exceed™ 2018MA

Performance Polymer

Product Description

Exceed 2018MA is an ethylene 1-hexene copolymer. Films made from Exceed 2018MA have outstanding tensile, impact strength, and puncture. These superior strength properties, along with excellent drawability, makes this a very versatile packaging film resin. The higher melt index also makes this polymer ideally suited for blending into LDPE rich films. TnPP is not intentionally added to Exceed 2018MA.

General

Availability ¹	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Antiblock: No	▪ Processing Aid: Yes	
	▪ Slip: No	▪ Thermal Stabilizer: Yes	
Applications	▪ Bag in Box	▪ Form Fill And Seal Packaging	▪ Overwrap Film
	▪ Barrier Food Packaging	▪ Freezer Film	▪ Packaging Films
	▪ Blown Film	▪ General Packaging	▪ Premium Trash Bags
	▪ Blown Stretch Film	▪ Heavy Duty Bags	▪ Stand Up Pouches
	▪ Bread Bags	▪ Lamination Film	▪ Trash Bags
	▪ Food Packaging	▪ Multilayer Packaging Film	
Form(s)	▪ Pellets		
Revision Date	▪ 06/03/2020		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm ³	0.918 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Peak Melting Temperature	243 °F	117 °C	ExxonMobil Method

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	223 °F	106 °C	ExxonMobil Method

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	1300 psi	9.2 MPa	ASTM D882
Tensile Strength at Break MD	8600 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	8000 psi	60 MPa	ASTM D882
Elongation at Break MD	590 %	590 %	ASTM D882
Elongation at Break TD	690 %	690 %	ASTM D882
Secant Modulus MD - 1% Secant	24000 psi	170 MPa	ASTM D882
Secant Modulus TD - 1% Secant	27000 psi	180 MPa	ASTM D882
Dart Drop Impact	580 g	580 g	ASTM D1709A
Elmendorf Tear Strength MD	330 g	330 g	ASTM D1922
Elmendorf Tear Strength TD	460 g	460 g	ASTM D1922
Puncture Force	11 lbf	48 N	ExxonMobil Method
Puncture Energy	37 in-lb	4.1 J	ExxonMobil Method

Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	18	18	ASTM D2457
Haze	> 30 %	> 30 %	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 400-420°F (204-216°C), a 60 mil (1.52 mm) die gap at a rate of 9 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.

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