Product Datasheet

ExxonMobil Signature Polymers

Exceed™ Stiff m 1327.MA

Metallocene Polyethylene

Product Description

Exceed™ Stiff m 1327.MA is an ethylene 1-hexene copolymer. Films made from Exceed™ Stiff m 1327.MA have excellent 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™ Stiff m 1327.MA.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: Yes ▪ Thermal Stabilizer: Yes	
Applications	▪ Bag in Box ▪ Barrier Food Packaging ▪ Blown Film ▪ Food Packaging ▪ Form Fill And Seal Packaging ▪ General Packaging	▪ Heavy Duty Bags ▪ Label Film ▪ Multilayer Packaging Film ▪ Overwrap Film ▪ Packaging Films ▪ Premium Trash Bags	▪ Produce Bags ▪ Shrink Film ▪ Stand Up Pouches ▪ Trash Bags
Revision Date	▪ 06/03/2020		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density / Specific Gravity	0.927	g/cm³	0.927	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	1.3	g/10 min	1.3	g/10 min	ASTM D1238
Peak Melting Temperature	253	°F	123	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	241	°F	116	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1900	psi	13	MPa	ASTM D882
Tensile Strength at Yield TD	2100	psi	14	MPa	ASTM D882
Tensile Strength at Break MD	8300	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	7300	psi	50	MPa	ASTM D882
Elongation at Break MD	580	%	580	%	ASTM D882
Elongation at Break TD	700	%	700	%	ASTM D882
Secant Modulus MD - 1% Secant	45000	psi	310	MPa	ASTM D882
Secant Modulus TD - 1% Secant	52000	psi	360	MPa	ASTM D882
Dart Drop Impact	140	g	140	g	ASTM D1709A
Elmendorf Tear Strength MD	160	g	160	g	ASTM D1922
Elmendorf Tear Strength TD	430	g	430	g	ASTM D1922
Puncture Force	11	lbf	48	N	ExxonMobil Method
Puncture Energy	27	in·lb	3.1	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	16		16		ASTM D2457
Haze	> 30	%	> 30	%	ASTM D1003

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

ExxonMobil

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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 (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 (1.61 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.

For additional technical, sales and order assistance: Contact Us

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