Product Datasheet

ExxonMobil Signature Polymers

Exceed™ Stiff m 1327.MD

Metallocene Polyethylene

Product Description

Exceed Stiff m 1327.MD is an ethylene 1-hexene copolymer. It produces films which have high modulus whilst retaining good toughness. Additionally, Exceed Stiff m 1327.MD is fully formulated with slip and antiblock, giving a versatile ready-to-use polymer for applications such as form fill and seal. TnPP is not intentionally added to Exceed Stiff m 1327.MD.

General

Availability [1]	▪ Asia Pacific	▪ Europe	
Additive	▪ Antiblock: 750 ppm ▪ Slip: 1300 ppm	▪ Processing Aid: Yes ▪ Thermal Stabilizer: Yes	
Applications	▪ Bag in Box ▪ Barrier Food Packaging ▪ Blown Film ▪ Bread Bags ▪ Food Packaging ▪ Form Fill And Seal Packaging	▪ General Packaging ▪ Industrial Packaging ▪ Multilayer Packaging Film ▪ Overwrap Film ▪ Packaging Films ▪ Premium Trash Bags	▪ Shrink Film ▪ Stand Up Pouches ▪ Trash Bags ▪ Zipper Bag
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	6800	psi	47	MPa	ASTM D882
Tensile Strength at Break TD	5700	psi	39	MPa	ASTM D882
Elongation at Break MD	560	%	560	%	ASTM D882
Elongation at Break TD	620	%	620	%	ASTM D882
Secant Modulus MD - 1% Secant	45000	psi	310	MPa	ASTM D882
Secant Modulus TD - 1% Secant	48000	psi	330	MPa	ASTM D882
Dart Drop Impact	140	g	140	g	ASTM D1709A
Elmendorf Tear Strength MD	190	g	190	g	ASTM D1922
Elmendorf Tear Strength TD	450	g	450	g	ASTM D1922
Puncture Force	9	lbf	38	N	ExxonMobil Method
Puncture Energy	15	in·lb	1.7	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	25		25		ASTM D2457
Haze	26	%	26	%	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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