Product Datasheet

ExxonMobil Signature Polymers

Exceed™ Stiff m 3527.PA

Metallocene Polyethylene

Product Description

Exceed™ Stiff m 3527.PA is an ethylene 1-hexene copolymer. Films made of Exceed Stiff m 3527.PA have high modulus and outstanding tensile, impactand puncture resistance properties. These superior properties together with excellent drawability make this a versatile polymer for mono layer and multi-layer cast stretch film applications. TnPP is not intentionally added to Exceed Stiff m 3527.PA.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Exceed™ Stiff m 3527.PA: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes		
Applications	▪ Artificial grass ▪ Cast Film ▪ Cast Stretch Film	▪ Diaper Backsheet ▪ Hygiene film ▪ Overwrap Film	▪ Personal Care
Form(s)	▪ Pellets		
Revision Date	▪ 05/22/2018		

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)	3.5	g/10 min	3.5	g/10 min	ASTM D1238
Peak Melting Temperature	250	°F	121	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1500	psi	10	MPa	ASTM D882
Tensile Strength at Yield TD	1400	psi	9.6	MPa	ASTM D882
Tensile Strength at Break MD	8900	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	5900	psi	41	MPa	ASTM D882
Elongation at Break MD	530	%	530	%	ASTM D882
Elongation at Break TD	750	%	750	%	ASTM D882
Secant Modulus MD - 1% Secant	27000	psi	190	MPa	ASTM D882
Secant Modulus TD - 1% Secant	30000	psi	200	MPa	ASTM D882
Dart Drop Impact	60	g	60	g	ASTM D1709A
Elmendorf Tear Strength MD	70	g	70	g	ASTM D1922
Elmendorf Tear Strength TD	400	g	400	g	ASTM D1922
Puncture Force	10	lbf	45	N	ExxonMobil Method
Puncture Energy	23	in·lb	2.6	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	87		87		ASTM D2457
Haze	2.8	%	2.8	%	ASTM D1003

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 (0.8 mil / 20 micron) made from Exceed™ Stiff m 3527.PA on a Black Clawson 3.5 inch cast line at a 5.5 inch melt curtain length, 520-580°F melt temperature, 80°F chill roll temperature and 750 fpm line speed. Films were aged at 140°F for 48 hours before lab aging and testing.

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

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