Product Datasheet

ExxonMobil Signature Polymers

Exceed™ m 3516.PA

Metallocene Polyethylene

Product Description

Exceed™ m 3516.PA is an eXtreme Performance ethylene 1-hexene copolymer that offers easy processing and improved toughness for a versatility of use in cast film applications. TnPP is not intentionally added to Exceed™ m 3516.PA. Exceed™ m 3516.PA - when eXtreme Performance matters.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Exceed™ m 3516.PA: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes		
Applications	▪ Barrier Food Packaging ▪ Cast Film	▪ Cast Flexible Film Packaging ▪ Diaper Backsheet	▪ Hygiene film
Form(s)	▪ Pellets		
Revision Date	▪ 10/14/2020		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.916	g/cm³	0.916	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	3.5	g/10 min	3.5	g/10 min	ASTM D1238

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	960	psi	6.6	MPa	ASTM D882
Tensile Strength at Yield TD	930	psi	6.4	MPa	ASTM D882
Tensile Strength at Break MD	7000	psi	48	MPa	ASTM D882
Tensile Strength at Break TD	5500	psi	38	MPa	ASTM D882
Elongation at Break MD	500	%	500	%	ASTM D882
Elongation at Break TD	680	%	680	%	ASTM D882
Secant Modulus MD - 1% Secant	18000	psi	120	MPa	ASTM D882
Secant Modulus TD - 1% Secant	18000	psi	120	MPa	ASTM D882
Dart Drop Impact	290	g	290	g	ASTM D1709A
Elmendorf Tear Strength MD	280	g	280	g	ASTM D1922
Elmendorf Tear Strength TD	350	g	350	g	ASTM D1922
Puncture Force	8	lbf	36	N	ExxonMobil Method
Puncture Energy	34	in·lb	3.8	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	85		85		ASTM D2457
Haze	3.4	%	3.4	%	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.

Exceed™ m 3516.PA can - in principle - be used in food contact applications in all EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

Processing Statement

Film (0.8 mil/20 micron) made from Exceed™ m 3516.PA on a 2.4"-3.4" cast film line at a 525-545°F (274-285°C) melt temperature, 77°F (25°C) chillroll temperature and 1050 fpm (320 m/min) line speed.

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