Product Datasheet

ExxonMobil Signature Polymers

Exceed™ Flow+ m 0516.ML

Metallocene Polyethylene

Product Description

Exceed™ Flow+ m 0516.ML is an eXtreme Performance linear low density polyethylene 1-hexene copolymer that is especially designed to have good melt strength and excellent tensile, impact, and puncture properties. The combination of high toughness, melt stability and good sealing performance makes this grade a versatile blown film resin. TnPP is not intentionally added to Exceed™ Flow+ m 0516.ML. Exceed™ Flow+ m 0516.ML - when eXtreme Performance matters.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Exceed™ Flow+ m 0516.ML: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes		
Applications	▪ Construction Liners ▪ Food Packaging ▪ Geomembrane	▪ Greenhouse Film ▪ Heavy Duty Bags ▪ Lamination Film	▪ Shrink Film
Revision Date	▪ 05/22/2018		

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)	0.50	g/10 min	0.50	g/10 min	ASTM D1238
Peak Melting Temperature	228	°F	109	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1300	psi	8.7	MPa	ASTM D882
Tensile Strength at Yield TD	1400	psi	9.5	MPa	ASTM D882
Tensile Strength at Break MD	8500	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	8600	psi	60	MPa	ASTM D882
Elongation at Break MD	390	%	390	%	ASTM D882
Elongation at Break TD	710	%	710	%	ASTM D882
Secant Modulus MD - 1% Secant	24000	psi	160	MPa	ASTM D882
Secant Modulus TD - 1% Secant	29000	psi	200	MPa	ASTM D882
Dart Drop Impact [2]	510	g	510	g	ASTM D1709
Elmendorf Tear Strength MD	80	g	80	g	ASTM D1922
Elmendorf Tear Strength TD	460	g	460	g	ASTM D1922
Puncture Force	13	lbf	58	N	ExxonMobil Method
Puncture Energy	39	in·lb	4.4	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	59		59		ASTM D2457
Haze	7.1	%	7.1	%	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™ Flow+ m 0516.ML 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.

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

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Processing Statement

Film (1 mil/25.4 micron) made from Exceed™ Flow+ m 0516.ML on a 2.5 inch blown film line equipped with 2.5:1 blow-up ratio, 30 mil die gap, 18 inch frostline, 407°F melt temperature and 10lbs/die in/hr.

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.

[2] Dart Head Type C

For additional technical, sales and order assistance: Contact Us

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