ExxonMobil Signature Polymers

Exceed™ Flow m 1716.PA

(Legacy name: Enable™ 1617PA)

Metallocene Polyethylene

Product Description

Exceed™ Flow m 1716.PA is an ethylene 1-hexene copolymer. Exceed™ Flow m 1716.PA is designed to deliver enhanced processability on cast film lines with excellent shear thinning characteristics designed to provide flow to theedges of dies with stable melt curtain. The film properties such as tensile, dart impact and puncture are excellent, while exhibiting superior optical properties such as haze and gloss.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: No ▪ Thermal Stabilizer: Yes	
Applications	▪ Cast Stretch Film		
Form(s)	▪ Pellets		
Revision Date	▪ 04/19/2024		

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)	1.7	g/10 min	1.7	g/10 min	ASTM D1238
Peak Melting Temperature	228	°F	109	°C	ExxonMobil Method

Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	209	°F	99	°C	ASTM D1525

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1000	psi	7.2	MPa	ASTM D882
Tensile Strength at Yield TD	980	psi	6.8	MPa	ASTM D882
Tensile Strength at Break MD	12000	psi	80	MPa	ASTM D882
Tensile Strength at Break TD	6900	psi	48	MPa	ASTM D882
Elongation at Break MD	380	%	380	%	ASTM D882
Elongation at Break TD	710	%	710	%	ASTM D882
Secant Modulus MD - 1% Secant	17000	psi	110	MPa	ASTM D882
Secant Modulus TD - 1% Secant	19000	psi	130	MPa	ASTM D882
Dart Drop Impact	190	g	190	g	ASTM D1709A
Elmendorf Tear Strength MD	50	g	50	g	ASTM D1922
Elmendorf Tear Strength TD	330	g	330	g	ASTM D1922
Puncture Force	12	lbf	52	N	ExxonMobil Method
Puncture Energy	35	in·lb	3.9	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	85		85		ASTM D2457
Haze	3.3	%	3.3	%	ASTM D1003

Legal Statement

Fluoropolymers, or fluorine-containing compounds, and tris(nonylphenol) phosphite (TNPP) CAS# 26523-78-4 are not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for their presence, based on product composition knowledge these substances are not expected to be present. However, the fact that these substances are not intentionally used by ExxonMobil in this product does not exclude that trace levels of these substances 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).

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Processing Statement

Film (0.8 mil / 20 micron) made from Exceed™ Flow m 1716.PA on a 7-layer cast film line with 4 extruders (2 ext of 2 inch diameter, 2 ext of 75 mm diameter), melt temperatures between 525 - 540°F (274 - 282°C), FLH at 3o'clock drive side, a chill roll temperature of 70°F (21°C), and 750 fpm(229 m/min) line speed.

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: www.exxonmobilchemical.com/ContactUs

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