

Product Datasheet



Enable™ 1617PA

Performance Polymer

Product Description

Enable™ 1617PA is an ethylene 1-hexene copolymer. Enable™ 1617PA is designed to deliver enhanced processability on cast film lines with excellent shear thinning characteristics designed to provide flow to the edges 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/cm ³	0.916 g/cm ³	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 Enable™ 1617PA 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 3 o'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.

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