

Enable™ 2703MC

Performance Polymer

Product Description

Enable™ 2703MC resin is an ethylene 1-hexene copolymer. Enable™ performance polymer resins offer an outstanding balance between processing and film properties, including tensile, impact and puncture. Easier processing and excellent properties lead to significant high pressure LDPE replacement in many applications, yet with superior drawdown and enhanced toughness. TnPP is not intentionally added to Enable™ 2703MC resin.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Additive	<ul style="list-style-type: none"> Antiblock: No Slip: No 	<ul style="list-style-type: none"> Processing Aid: Yes Thermal Stabilizer: Yes 	
Applications	<ul style="list-style-type: none"> Blown Film Collation Shrink Food Packaging 	<ul style="list-style-type: none"> Form Fill And Seal Packaging Heavy Duty Bags Lamination Film 	<ul style="list-style-type: none"> Multilayer Packaging Film Shrink Film Stand Up Pouches
Form(s)	<ul style="list-style-type: none"> Pellets 		
Revision Date	<ul style="list-style-type: none"> 06/03/2020 		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.927 g/cm ³	0.927 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.30 g/10 min	0.30 g/10 min	ASTM D1238
Peak Melting Temperature	246 °F	119 °C	ExxonMobil Method

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	239 °F	115 °C	ExxonMobil Method

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1900 psi	13 MPa	ASTM D882
Tensile Strength at Yield TD	2200 psi	15 MPa	ASTM D882
Tensile Strength at Break MD	9100 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7500 psi	50 MPa	ASTM D882
Elongation at Break MD	480 %	480 %	ASTM D882
Elongation at Break TD	750 %	750 %	ASTM D882
Secant Modulus MD - 1% Secant	45000 psi	310 MPa	ASTM D882
Secant Modulus TD - 1% Secant	55000 psi	380 MPa	ASTM D882
Dart Drop Impact	140 g	140 g	ASTM D1709A
Elmendorf Tear Strength MD	40 g	40 g	ASTM D1922
Elmendorf Tear Strength TD	670 g	670 g	ASTM D1922
Puncture Force	11 lbf	50 N	ExxonMobil Method
Puncture Energy	25 in-lb	2.8 J	ExxonMobil Method

Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	42	42	ASTM D2457
Haze	12 %	12 %	ASTM D1003

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Legal Statement

Tris(nonylphenyl)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.

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).

Processing Statement

Film (1 mil / 25.4 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 380 - 400°F (193 - 204°C), a 30 mil (0.76 mm) die gap at a rate of 10 lbs/hr/ in die circumference (1.79 kg/hr/cm).

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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