

Enable™ 27-03HH

Metalocene Polyethylene Resin

Product Description

Enable 27-03HH is a metallocene ethylene-hexene copolymer. Enable mPE 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.

General

Availability ¹	• Latin America	• North America	• South America
Additive	• Antiblock: No • Processing Aid: Yes	• Slip: No • Thermal Stabilizer: Yes	
Applications	• Blown Film • Collation Shrink • Food packaging	• Form Fill And Seal Packaging • Heavy Duty Bags • Lamination Film	• Multilayer Packaging Film • Shrink Film • Stand Up Pouches
Revision Date	• June 2011		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.927 g/cm ³	0.927 g/cm ³	ExxonMobil Method
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

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	9600 psi	70 MPa	ASTM D882
Tensile Strength at Break TD	7700 psi	50 MPa	ASTM D882
Elongation at Break MD	470 %	470 %	ASTM D882
Elongation at Break TD	760 %	760 %	ASTM D882
Secant Modulus MD - 1% Secant	45000 psi	310 MPa	ASTM D882
Secant Modulus TD - 1% Secant	53000 psi	370 MPa	ASTM D882
Dart Drop Impact	130 g	130 g	ASTM D1709A
Elmendorf Tear Strength MD	40 g	40 g	ASTM D1922
Elmendorf Tear Strength TD	770 g	770 g	ASTM D1922
Puncture Force	11 lbf	49 N	ExxonMobil Method
Puncture Energy	31 in·lb	3.5 J	ExxonMobil Method

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

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Typical properties: these are not to be construed as specifications.

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ExxonMobil Chemical Enable™ 27-03HH Metallocene Polyethylene Resin

Processing Statement

Film (1 mil / 25.4 micron) made from Enable 27-03CH on a blown film line equipped with a 2.5 inch screw, 30 mil (0.76 mm) die gap, 2.5:1 blow up ratio, 385 °F (196°C) melt temperature, 14 inch (356mm) frostline and 10 lbs/die in/hr.

NOTICE: TYPICAL FILM PROPERTIES ARE PRELIMINARY AND WILL BE UPDATED ONCE A STATISTICALLY SIGNIFICANT DATASET IS COMPILED.

Notes

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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