

Enable™ 27-05HH

Metalocene Polyethylene Resin

Product Description

Enable 27-05HH 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)	0.50 g/10 min	0.50 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 Break MD	9100 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7100 psi	49 MPa	ASTM D882
Elongation at Break MD	510 %	510 %	ASTM D882
Elongation at Break TD	760 %	760 %	ASTM D882
Secant Modulus MD - 1% Secant	44000 psi	300 MPa	ASTM D882
Secant Modulus TD - 1% Secant	50000 psi	350 MPa	ASTM D882
Dart Drop Impact	120 g	120 g	ASTM D1709A
Elmendorf Tear Strength MD	50 g	50 g	ASTM D1922
Elmendorf Tear Strength TD	760 g	760 g	ASTM D1922
Puncture Force	11 lbf	49 N	ExxonMobil Method
Puncture Energy	24 in·lb	2.7 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	52	52	ASTM D2457
Haze	10 %	10 %	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™ 27-05HH Metallocene Polyethylene Resin

Processing Statement

Film (1 mil / 25.4 micron) made from Enable 27-05CH 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, 378 °F (192°C) melt temperature, 16 inch (406mm) frostline and 10 lbs/die in/hr.

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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