

# 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 <sup>1</sup>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Antiblock: No</li> <li>Slip: No</li> <li>Processing Aid: Yes</li> <li>Thermal Stabilizer: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Blown Film</li> <li>Collation Shrink</li> <li>Food packaging</li> <li>Form Fill And Seal Packaging</li> <li>Heavy Duty Bags</li> <li>Lamination Film</li> <li>Multilayer Packaging Film</li> <li>Shrink Film</li> <li>Stand Up Pouches</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>12/01/2012</li> </ul>

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.927 g/cm <sup>3</sup>	0.927 g/cm <sup>3</sup>	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 Yield TD	2100 psi	14 MPa	ASTM D882
Tensile Strength at Break MD	8500 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7300 psi	50 MPa	ASTM D882
Elongation at Break MD	520 %	520 %	ASTM D882
Elongation at Break TD	770 %	770 %	ASTM D882
Secant Modulus MD - 1% Secant	43000 psi	300 MPa	ASTM D882
Secant Modulus TD - 1% Secant	51000 psi	350 MPa	ASTM D882
Dart Drop Impact	130 g	130 g	ASTM D1709A
Elmendorf Tear Strength MD	50 g	50 g	ASTM D1922
Elmendorf Tear Strength TD	730 g	730 g	ASTM D1922
Puncture Force	11 lbf	48 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°)	49	49	ASTM D2457
Haze	11 %	11 %	ASTM D1003

### Legal Statement

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 from Enable 27-05HH on a 2.5 inch ( 63.5 mm ) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 401 °F (205 °C ), a 30 mil (0.76 mm) die gap at a rate of 10lbs/hr/in die circumference (1.79 kg/hr/cm).

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Metallocene Polyethylene Resin

### Notes

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

<sup>1</sup> 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](http://www.exxonmobilchemical.com/ContactUs)

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