

# Enable™ 23-05HH

## Metalocene Polyethylene Resin

### Product Description

ENABLE 23-05HH 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>	• Latin America	• North America	• South America
Additive	• Antiblock: No • Processing Aid: Yes	• Slip: No • Thermal Stabilizer: Yes	
Applications	• Agricultural Film • 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	• May 2011		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.923 g/cm <sup>3</sup>	0.923 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	243 °F	117 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1600 psi	11 MPa	ASTM D882
Tensile Strength at Yield TD	1700 psi	12 MPa	ASTM D882
Tensile Strength at Break MD	9400 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7800 psi	50 MPa	ASTM D882
Elongation at Break MD	500 %	500 %	ASTM D882
Elongation at Break TD	730 %	730 %	ASTM D882
Secant Modulus MD - 1% Secant	34000 psi	230 MPa	ASTM D882
Secant Modulus TD - 1% Secant	38000 psi	260 MPa	ASTM D882
Dart Drop Impact	170 g	170 g	ASTM D1709A
Elmendorf Tear Strength MD	70 g	70 g	ASTM D1922
Elmendorf Tear Strength TD	650 g	650 g	ASTM D1922
Puncture Force	12 lbf	53 N	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	57	57	ASTM D2457
Haze	8.9 %	8.9 %	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™ 23-05HH Metallocene Polyethylene Resin

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## Processing Statement

Film (1 mil / 25.4 micron) made from Enable 23-05CH 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, 380 °F ( 193°C ) melt temperature, 17 inch ( 432 mm ) frostline and 10 lbs/die in/hr.

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

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## Notes

<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.

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