

# Enable™ 20-10 Series

## Metalocene Polyethylene Resin

### Product Description

Enable 20-10 resins are metallocene ethylene-hexene copolymers. Enable mPE resins offer an outstanding balance between processing and film properties, including tensile, impact and puncture. Enable 20-10 resins are available for blown film, both formulated and non-formulated. A heavily stabilized formulation for cast film processing is also available.

### 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>Enable 20-10HE: Antiblock: 2000 ppm; Slip: 500 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes</li> <li>Enable 20-10CB: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes</li> <li>Enable 20-10HA: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Agricultural Film</li> <li>Blown Film</li> <li>Cast Film</li> <li>Cast Stretch Film</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> <li>Stretch Film</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	0.920 g/cm <sup>3</sup>	0.920 g/cm <sup>3</sup>	ExxonMobil Method
Melt Index (190°C/2.16 g)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Peak Melting Temperature	237 °F	114 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1400 psi	9.6 MPa	ASTM D882
Tensile Strength at Yield TD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Break MD	8300 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7700 psi	50 MPa	ASTM D882
Elongation at Break MD	520 %	520 %	ASTM D882
Elongation at Break TD	730 %	730 %	ASTM D882
Secant Modulus MD - 1% Secant	30000 psi	200 MPa	ASTM D882
Secant Modulus TD - 1% Secant	33000 psi	230 MPa	ASTM D882
Dart Drop Impact	190 g	190 g	ASTM D1709A
Elmendorf Tear Strength MD	120 g	120 g	ASTM D1922
Elmendorf Tear Strength TD	560 g	560 g	ASTM D1922
Puncture Force	10 lbf	45 N	ExxonMobil Method
Puncture Energy	27 in-lb	3.1 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	61	61	ASTM D2457
Haze	7.1 %	7.1 %	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.

### Processing Statement

Film (1 mil / 25.4 micron) made from Enable 20-10HA on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 398°F (203°C), a 30 mil (0.76 mm) die gap at a rate of 10 lbs/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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