ExxonMobil

Enable™ 20-10 Series

Metallocene 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 [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Enable 20-10HE: Antiblock: 2000 ppm; Slip: 500 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes ▪ Enable 20-10CB: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes ▪ Enable 20-10HA: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes		
Applications	▪ Agricultural Film ▪ Blown Film ▪ Cast Film ▪ Cast Stretch Film	▪ Food packaging ▪ Form Fill And Seal Packaging ▪ Heavy Duty Bags ▪ Lamination Film	▪ Multilayer Packaging Film ▪ Shrink Film ▪ Stand Up Pouches ▪ Stretch Film
Revision Date	▪ 12/01/2012		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.920	g/cm³	0.920	g/cm³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	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	280	g	280	g	ASTM D1709A
Elmendorf Tear Strength MD	120	g	120	g	ASTM D1922
Elmendorf Tear Strength TD	560	g	560	g	ASTM D1922

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).

Notes

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

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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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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