

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 with blown film formulations, with or without antiblock. A heavily stabilized formulation for cast film processing is also available.

General

Availability ¹	- Africa & Middle East - Asia Pacific	- Latin America - North America	South America
Additive	- Enable 20-10CB: Antiblock: No; Processing Aid: No; Slip: No; Thermal Stabilizer: Yes - Enable 20-10CH: Antiblock: No; Processing Aid: Yes; Slip: No; Thermal Stabilizer: Yes - Enable 20-10CE: Antiblock: 2000 ppm; Processing Aid: Yes; Slip: 500 ppm; 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	12/2008		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.920 g/cm ³	0.920 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Peak Melting Temperature	239 °F	115 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1410 psi	9.70 MPa	ASTM D882
Tensile Strength at Yield TD	1480 psi	10.2 MPa	ASTM D882
Tensile Strength at Break MD	8820 psi	60.8 MPa	ASTM D882
Tensile Strength at Break TD	7430 psi	51.2 MPa	ASTM D882
Elongation at Break MD	540 %	540 %	ASTM D882
Elongation at Break TD	740 %	740 %	ASTM D882
Secant Modulus MD - 1% Secant	28800 psi	199 MPa	ASTM D882
Secant Modulus TD - 1% Secant	32500 psi	224 MPa	ASTM D882
Dart Drop Impact	200 g	200 g	ASTM D1709A
Elmendorf Tear Strength MD	110 g	110 g	ASTM D1922
Elmendorf Tear Strength TD	570 g	570 g	ASTM D1922
Puncture Force	11.0 lbf	48.9 N	ExxonMobil Method
Puncture Energy	30.0 in-lb	3.39 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	65	65	ASTM D2457
Haze	7.6 %	7.6 %	ASTM D1003

Legal Statement

20-10 Series can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

ExxonMobil Polyethylene is not intended for use in medical applications.

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

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Processing Statement

Film (1 mil / 25.4 micron) made from Enable 20-10CH 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, 371 °F (188°C) melt temperature, 17 inch (432 mm) 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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