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Chemical

Ex on Mobil

Enable[™] 20-05 Series Metallocene Polyethylene Resin

Product Description

Enable 20-05 resins are metallocene ethylene-hexene copolymers. 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. Enable 20-05 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	 Latin America 	• 1	North America	South America
Additive	 Enable 20-05 Enable 20-05 Enable 20-05 Stabilizer: Yes 	CB: Antiblock: No; Pr CH: Antiblock: No; Pr CE: Antiblock: 2000 p	rocessing Aid: No; Slip: No; Tl rocessing Aid: Yes; Slip: No; T opm; Processing Aid: Yes; Slip	nermal Stabilizer: Yes 'hermal Stabilizer: Yes b: 500 ppm; Thermal
Applications	 Agricultural Fi Blown Film Cast Film Cast Stretch F Collation Shri 	Im • F • F • H Film • L nk • N	Food packaging Form Fill And Seal Packaging Heavy Duty Bags Lamination Film Multilayer Packaging Film	Shrink FilmStand Up PouchesStretch Film
Revision Date	• 2/2009			
Resin Properties	Typical	Value (English)	Typical Value (SI)	Test Based On
Density		0.920 g/cm ³	0.920 g/cn	n ³ ExxonMobil Method
Melt Index (190°C/2.16 kg)		0.50 g/10 min	0.50 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		1450 psi	9.96 MPa	ASTM D882
Tensile Strength at Yield TD		1490 psi	10.3 MPa	ASTM D882
Tensile Strength at Break MD		9930 psi	68.5 MPa	ASTM D882
Tensile Strength at Break TD		7990 psi	55.1 MPa	a ASTM D882
Elongation at Break MD		470 %	470 %	ASTM D882
Elongation at Break TD		720 %	720 %	ASTM D882
Secant Modulus MD - 1% Secan	t	28100 psi	193 MPa	ASTM D882
Secant Modulus TD - 1% Secant		31900 psi	220 MPa	ASTM D882
Dart Drop Impact		280 g	280 g	ASTM D1709A
Elmendorf Tear Strength MD		76 g	76 g	ASTM D1922
Elmendorf Tear Strength TD		550 g	550 g	ASTM D1922
Puncture Force		12.0 lbf	53.4 N	ExxonMobil Method
Puncture Energy		33.0 in·lb	3.73 J	ExxonMobil Method
Optical Properties	Typical	Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)		60	60	ASTM D2457
Haze		8.1 %	8.1 %	ASTM D1003

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

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Legal Statement

20-05 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.

Processing Statement

Film (1 mil / 25.4 micron) made from Enable 20-05CH 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, 383 °F (195°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. Contact your Sales Representative for complete Country Availability.

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