

ExxonMobil Enable™ 20-05HH Metallocene Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Enable 20-05 resins are metallocene ethylene-hexane 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 for blown film, both formulated and non-formulated. A heavily stabilized formulation for cast film processing is also available. **Availability:** Latin America, North America and South America **Additive:** Antiblock: No Slip: No Processing Aid: Yes **Thermal Stabilizer:** Yes **Applications:** Agricultural Film Blown Film Cast Film Cast Stretch Film Collation Shrink Food packaging Form Fill and Seal Packaging Heavy Duty Bags Lamination Film Multilayer Packaging Film Shrink Film Stand Up Pouches Stretch Film **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Enable-20-05HH-Metallocene-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ExxonMobil method
Melt Flow	0.50 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.3 MPa	1500 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	480 %	480 %	ASTM D882
Film Elongation at Break, TD	470 %	470 %	ASTM D882
Puncture Energy	3.62 J	2.67 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	90 g	90 g	ASTM D1922
Elmendorf Tear Strength TD	580 g	580 g	ASTM D1922
Dart Drop Test	210 g	0.463 lb	ASTM D1709A
Film Tensile Strength at Break, MD	60.0 MPa	8700 psi	ASTM D882
Film Tensile Strength at Break, TD	55.8 MPa	8100 psi	ASTM D882
1% Secant Modulus, MD	214 MPa	31000 psi	ASTM D882
1% Secant Modulus, TD	241 MPa	35000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 237 °C	<= 459 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003
Gloss	56 %	56 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	12 lbf	ExxonMobil Method

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