

ExxonMobil Enable™ 20-05HE Metallocene Polyethylene Resin (Asia Pacific Grade)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

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 for blown film both formulated and non-formulated. Availability: Asia Pacific Additive: Antiblock: 2000 ppm Slip: 500 ppm 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-20-05HE-Metallocene-Polyethylene-Resin-Asia-Pacific-Grade.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
Antiblock Level	2000 ppm	2000 ppm	
Slip Level	500 ppm	500 ppm	

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	710 %	710 %	ASTM D882
Elmendorf Tear Strength MD	90 g	90 g	ASTM D1922
Elmendorf Tear Strength TD	580 g	580 g	ASTM D1922
Dart Drop Test	330 g	0.728 lb	ASTM D1709
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 Mechanical Properties	241 MPa Metric	35000 psi English	ASTM D882 Comments
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

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