

ExxonMobil Enable™ 27-03HH Metallocene Polyethylene Resin (European Grade)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Enable 27-03HH is a 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. Availability: Africa & Middle East, Asia Pacific and Europe Additive: Antiblock: No Slip: No Processing Aid: Yes Thermal Stabilizer: Yes Applications: Blown Film Collation Shrink Food packaging Form Fill and Seal Packaging Heavy Duty Bags Lamination Film Multilayer Packaging Film Shrink Film Stand Up Pouches Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Enable-27-03HH-Metallocene-Polyethylene-Resin-European-Grade.php

Physical Properties	Metric	English	Comments
Density	0.927 g/cc	0.0335 lb/in³	ExxonMobil method
Melt Flow	0.30 g/10 min	0.30 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	13.1 MPa	1900 psi	ASTM D882
Film Tensile Strength at Yield, TD	15.2 MPa	2200 psi	ASTM D882
Film Elongation at Break, MD	480 %	480 %	ASTM D882
Film Elongation at Break, TD	750 %	750 %	ASTM D882
Elmendorf Tear Strength MD	40 g	40 g	ASTM D1922
Elmendorf Tear Strength TD	670 g	670 g	ASTM D1922
Dart Drop Test	130 g	0.287 lb	ASTM D1709
Film Tensile Strength at Break, MD	64.1 MPa	9300 psi	ASTM D882
Film Tensile Strength at Break, TD	52.4 MPa	7600 psi	ASTM D882
1% Secant Modulus, MD	310 MPa	45000 psi	ASTM D882
1% Secant Modulus, TD	386 MPa	56000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	<= 246 °C Metric	<= 475 °F English	Peak Melting Point; ExxonMobil Method
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Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003
Gloss	42 %	42 %	45°; ASTM D2457

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