

ExxonMobil Enable™ 27-05CH Metallocene Polyethylene Resin (European Grade)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Enable 27-05CH 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 and Europe **Additive:** Antiblock: NoSlip: NoProcessing 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-27-05CH-Metallocene-Polyethylene-Resin-European-Grade.php

Physical Properties	Metric	English	Comments
Density	0.927 g/cc	0.0335 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	13.1 MPa	1900 psi	ASTM D882
Film Elongation at Break, MD	540 %	540 %	ASTM D882
Film Elongation at Break, TD	760 %	760 %	ASTM D882
Puncture Energy	2.71 J	2.00 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	50 g	50 g	ASTM D1922
Elmendorf Tear Strength TD	760 g	760 g	ASTM D1922
Dart Drop Test	120 g	0.265 lb	ASTM D1709
Film Tensile Strength at Break, MD	62.7 MPa	9100 psi	ASTM D882
Film Tensile Strength at Break, TD	49.0 MPa	7100 psi	ASTM D882
1% Secant Modulus, MD	303 MPa	44000 psi	ASTM D882
1% Secant Modulus, TD	345 MPa	50000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	≤ 245 °C Metric	≤ 475 °F English	Peak Melting Point; ExxonMobil Method
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Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM D1003
Gloss	52 %	52 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	11 lbf	ExxonMobil Method

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