

ExxonMobil Enable™ 27-03CH 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: NoSlip: NoProcessing Aid: Yes **Thermal Stabilizer:** Yes **Applications:** Blown FilmCollation ShrinkFood packagingForm Fill and Seal PackagingHeavy Duty BagsLamination FilmMultilayer Packaging FilmShrink FilmStand Up Pouches Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Enable-27-03CH-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	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 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 Tensile Strength at Yield, TD	15.2 MPa	2200 psi	ASTM D882
Film Elongation at Break, MD	470 %	470 %	ASTM D882
Film Elongation at Break, TD	760 %	760 %	ASTM D882
Puncture Energy	3.50 J	2.58 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	40 g	40 g	ASTM D1922
Elmendorf Tear Strength TD	770 g	770 g	ASTM D1922
Dart Drop Test	130 g	0.287 lb	ASTM D1709
Film Tensile Strength at Break, MD	66.2 MPa	9600 psi	ASTM D882
Film Tensile Strength at Break, TD	53.1 MPa	7700 psi	ASTM D882
1% Secant Modulus, MD	310 MPa	45000 psi	ASTM D882
1% Secant Modulus, TD	365 MPa	53000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 246 °C	<= 475 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003
Gloss	45 %	45 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	11 lbf	ExxonMobil Method

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