

ExxonMobil Enable™ 27-05HH Metallocene Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Enable 27-05HH is a 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. **Availability:** Latin America, North America and South America **Additive:**Antiblock: NoSlip: NoProcessing Aid: Yes**Thermal Stabilizer:** Yes**Applications:**Blown FilmCollation Shrink Food 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-27-05HH-Metallocene-Polyethylene-Resin.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 Tensile Strength at Yield, TD	14.5 MPa	2100 psi	ASTM D882
Film Elongation at Break, MD	520 %	520 %	ASTM D882
Film Elongation at Break, TD	770 %	770 %	ASTM D882
Puncture Energy	2.82 J	2.08 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	50 g	50 g	ASTM D1922
Elmendorf Tear Strength TD	730 g	730 g	ASTM D1922
Dart Drop Test	130 g	0.287 lb	ASTM D1709A
Film Tensile Strength at Break, MD	58.6 MPa	8500 psi	ASTM D882
Film Tensile Strength at Break, TD	50.3 MPa	7300 psi	ASTM D882
1% Secant Modulus, MD	296 MPa	43000 psi	ASTM D882
1% Secant Modulus, TD	352 MPa	51000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric ^{245 °C}	English ^{475 °F}	Comments ^{Peak Melting Point; ExxonMobil Method}
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Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ASTM D1003
Gloss	49 %	49 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	11 lbf	ExxonMobil Method

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