

ExxonMobil Enable™ 35-05HH Metallocene Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Enable 35-05HH 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:**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-35-05HH-Metallocene-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 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	17.2 MPa	2500 psi	ASTM D882
Film Tensile Strength at Yield, TD	19.3 MPa	2800 psi	ASTM D882
Film Elongation at Break, MD	550 %	550 %	ASTM D882
Film Elongation at Break, TD	810 %	810 %	ASTM D882
Puncture Energy	2.49 J	1.83 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	20 g	20 g	ASTM D1922
Elmendorf Tear Strength TD	610 g	610 g	ASTM D1922
Dart Drop Test	<= 80.0 g	<= 0.176 lb	ASTM D1709
Film Tensile Strength at Break, MD	57.9 MPa	8400 psi	ASTM D882
Film Tensile Strength at Break, TD	47.6 MPa	6900 psi	ASTM D882
1% Secant Modulus, MD	427 MPa	62000 psi	ASTM D882
1% Secant Modulus, TD	517 MPa	75000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric ^{254 °C}	English ^{489 °F}	Comments ^{Peak Melting Point; ExxonMobil Method}
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Optical Properties	Metric	English	Comments
Haze	14 %	14 %	ASTM D1003
Gloss	40 %	40 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	11 lbf	ExxonMobil Method

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