

ExxonMobil Enable™ 20-05CH Metallocene Polyethylene Resin (European Grade)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Enable 20-05CH is a metallocene ethylene-hexene copolymer. 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:** Agricultural FilmBlown FilmCast FilmCast Stretch FilmCollation ShrinkFood packagingForm Fill and Seal PackagingHeavy Duty BagsLamination FilmMultilayer Packaging FilmShrink FilmStand Up PouchesStretch Film

Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Enable-20-05CH-Metallocene-Polyethylene-Resin-European-Grade.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 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	9.65 MPa	1400 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.3 MPa	1500 psi	ASTM D882
Film Elongation at Break, MD	470 %	470 %	ASTM D882
Film Elongation at Break, TD	720 %	720 %	ASTM D882
Puncture Energy	3.73 J	2.75 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	80 g	80 g	ASTM D1922
Elmendorf Tear Strength TD	550 g	550 g	ASTM D1922
Dart Drop Test	280 g	0.617 lb	ASTM D1709
Film Tensile Strength at Break, MD	68.3 MPa	9900 psi	ASTM D882
Film Tensile Strength at Break, TD	55.2 MPa	8000 psi	ASTM D882
1% Secant Modulus, MD	193 MPa	28000 psi	ASTM D882
1% Secant Modulus, TD	221 MPa	32000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 237 °C	<= 459 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	8.1 %	8.1 %	ASTM D1003
Gloss	60 %	60 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	12 lbf	ExxonMobil Method

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