ExxonMobil Enable™ 23-05NA Metallocene Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Enable 23-05 resins are 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. Enable 23-05 resins are available with and without antiblockAvailability: Latin America, North America and South AmericaAdditive:Antiblock: 2000 ppm Slip: No Processing Aid: Yes Thermal Stabilizer: YesApplications:Agricultural FilmBlown 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-23-05NA-Metallocene-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in³	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
Antiblock Level	2000 ppm	2000 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.7 MPa	1700 psi	ASTM D882
Film Elongation at Break, MD	480 %	480 %	ASTM D882
Film Elongation at Break, TD	730 %	730 %	ASTM D882
Puncture Energy	3.05 J	2.25 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	60 g	60 g	ASTM D1922
Elmendorf Tear Strength TD	630 g	630 g	ASTM D1922
Dart Drop Test	180 g	0.397 lb	ASTM D1709A
Film Tensile Strength at Break, MD	61.4 MPa	8900 psi	ASTM D882
Film Tensile Strength at Break, TD	53.1 MPa	7700 psi	ASTM D882
1% Secant Modulus, MD	241 MPa	35000 psi	ASTM D882
1% Secant Modulus, TD	283 MPa	41000 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	<= 241 °C	<= 466 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	9.5 %	9.5 %	ASTM D1003
Gloss	51 %	51 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	11 lbf	ExxonMobil Method

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