ExxonMobil Exceed™ 1012HJ Metallocene Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Exceed 1012 mVLDPE resins are metallocene ethylene-hexene copolymer. Films made from these resins have outstanding cold temperature toughness, impact strength and puncture. These superior strength properties, along with excellent heat sealing and hot tack performance, make this a very versatile packaging film resin. Availability: Latin America, North America and South AmericaAdditive:Antiblock: NoSlip: NoProcessing Aid: YesThermal Stabilizer: YesApplications:Bag in BoxBarrier Food PackagingBlown FilmFood packagingForm Fill and Seal PackagingFreezer FilmHeavy Duty BagsIce BagsLamination FilmMultilayer Packaging Film Stand Up Pouches Information provided by ExxonMobil

Order this product through the following link:
http://www.lookpolymers.com/polymer_ExxonMobil-Exceed-1012HJ-Metallocene-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.912 g/cc	0.0329 lb/in³	ExxonMobil method
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	6.89 MPa	1000 psi	ASTM D882
Film Tensile Strength at Yield, TD	6.76 MPa	980 psi	ASTM D882
Film Elongation at Break, MD	450 %	450 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	ASTM D882
Puncture Energy	5.31 J	3.92 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	200 g	200 g	ASTM D1922
Elmendorf Tear Strength TD	310 g	310 g	ASTM D1922
Dart Drop Test	900 g	1.98 lb	ASTM D1709
Film Tensile Strength at Break, MD	57.2 MPa	8300 psi	ASTM D882
Film Tensile Strength at Break, TD	55.2 MPa	8000 psi	ASTM D882
1% Secant Modulus, MD	117 MPa	17000 psi	ASTM D882
1% Secant Modulus, TD	124 MPa	18000 psi	ASTM D882

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
Melting Point	238 °C	460 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	24 %	24 %	ASTM D1003
Gloss	30 %	30 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	13 lbf	ExxonMobil Method

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