ExxonMobil Exceed™ 1012 MK Metallocene Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Exceed 1012 mVLDPE resins are metallocene ethylene-hexene copolymers. Films made from Exceed 1012 mVLDPE resin 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: 5000 ppmSlip: 1000 ppmProcessing 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-1012-MK-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
Antiblock Level	5000 ppm	5000 ppm	
Slip Level	1000 ppm	1000 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	6.89 MPa	1000 psi	ASTM D882
Film Tensile Strength at Yield, TD	7.58 MPa	1100 psi	ASTM D882
Film Elongation at Break, MD	460 %	460 %	ASTM D882
Film Elongation at Break, TD	580 %	580 %	ASTM D882
Puncture Energy	2.94 J	2.17 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	210 g	210 g	ASTM D1922
Elmendorf Tear Strength TD	330 g	330 g	ASTM D1922
Dart Drop Test	500 g	1.10 lb	ASTM D1709
Film Tensile Strength at Break, MD	54.5 MPa	7900 psi	ASTM D882
Film Tensile Strength at Break, TD	48.3 MPa	7000 psi	ASTM D882
1% Secant Modulus, MD	117 MPa	17000 psi	ASTM D882
1% Secant Modulus, TD			ASTM D882

Mechanical Properties	Metric	English	Comments
	131 MPa	19000 psi	

Thermal Properties	Metric	English	Comments
Melting Point	<= 242 °C	<= 468 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	15 %	15 %	ASTM D1003
Gloss	45 %	45 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	10 lbf	ExxonMobil Method

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