

ExxonMobil Exceed™ 1018MK Metallocene Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Exceed 1018 resins are metallocene ethylene-hexene copolymer. Films made from Exceed 1018 resin have outstanding tensile, impact strength and puncture. These superior strength properties, along with excellent drawability, allow downgauging in bag application. **Availability:** Latin America, North America and South America **Additive:**Antiblock: 5000 ppmSlip: 1000 ppm **Processing Aid:** Yes **Thermal Stabilizer:** Yes **Applications:**Agricultural FilmBag in BoxBarrier Food PackagingBlown FilmBread BagsFood packagingForm Fill and Seal PackagingFreezer FilmGeneral PackagingHeavy Duty BagsIndustrial PackagingLamination FilmMultilayer Packaging FilmOverwrap FilmPackaging FilmsPremium Trash Bags Stand Up PouchesTrash BagsTrash Can Liners Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Exceed-1018MK-Metallocene-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	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	9.65 MPa	1400 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.65 MPa	1400 psi	ASTM D882
Film Elongation at Break, MD	500 %	500 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	ASTM D882
Puncture Energy	1.81 J	1.33 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	250 g	250 g	ASTM D1922
Elmendorf Tear Strength TD	470 g	470 g	ASTM D1922
Dart Drop Test	460 g	1.01 lb	ASTM D1709
Film Tensile Strength at Break, MD	54.5 MPa	7900 psi	ASTM D882
Film Tensile Strength at Break, TD	42.7 MPa	6200 psi	ASTM D882
1% Secant Modulus, MD	186 MPa	27000 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
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Melting Point	<= 247 °C	<= 477 °F	Peak Melting Point; ExxonMobil method
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Optical Properties	Metric	English	Comments
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Haze	18 %	18 %	ASTM D1003
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Gloss	39 %	39 %	45°; ASTM D2457
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Descriptive Properties	Value	Comments
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Puncture Force	8 lbf	ExxonMobil Method
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