

ExxonMobil Exceed™ 1018JA 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: 4500 ppm **Slip:** No **Processing Aid:** Yes **Thermal Stabilizer:** Yes **Applications:**Agricultural Film **Bag in Box** **Barrier Food Packaging** **Blown Film** **Bread Bags** **Food packaging** **Form Fill and Seal Packaging** **Freezer Film** **General Packaging** **Heavy Duty Bags** **Industrial Packaging** **Lamination Film** **Multilayer Packaging Film** **Overwrap Film** **Packaging Films** **Premium Trash Bags** **Stand Up Pouches** **Trash Bags** **Trash Can Liners** Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Exceed-1018JA-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	4500 ppm	4500 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
1% Secant Modulus, TD	193 MPa	28000 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	<= 247 °C	<= 477 °F	Peak Melting Point; ExxonMobil method

Optical Properties	Metric	English	Comments
Haze	18 %	18 %	ASTM D1003
Gloss	39 %	39 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	8 lbf	ExxonMobil Method

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