

ExxonMobil Exceed™ 4518CB Metallocene Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Exceed 4518 resins are metallocene ethylene-hexene copolymer. Films made from Exceed 4518 have outstanding tensile properties and impact and puncture toughness. These superior properties together with excellent drawability, make this a versatile polymer for mono layer and multilayer packaging and cast stretch film. **Availability:** Latin America, North America and South America **Additive:** Antiblock: NoSlip: NoProcessing Aid: NoThermal Stabilizer: Yes **Applications:** Cast FilmCast Stretch FilmDiaper BacksheetHygiene FilmPackaging FilmPersonal Care Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Exceed-4518CB-Metallocene-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ExxonMobil method
Melt Flow	4.5 g/10 min @Load 2.16 kg, Temperature 190 °C	4.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.27 MPa	1200 psi	ASTM D882
Film Tensile Strength at Yield, TD	7.58 MPa	1100 psi	ASTM D882
Film Elongation at Break, MD	500 %	500 %	ASTM D882
Film Elongation at Break, TD	730 %	730 %	ASTM D882
Puncture Energy	4.41 J	3.25 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	150 g	150 g	ASTM D1922
Elmendorf Tear Strength TD	460 g	460 g	ASTM D1922
Dart Drop Test	140 g	0.309 lb	ASTM D1709
Film Tensile Strength at Break, MD	66.9 MPa	9700 psi	ASTM D882
Film Tensile Strength at Break, TD	48.3 MPa	7000 psi	ASTM D882
1% Secant Modulus, MD	103 MPa	15000 psi	ASTM D882
1% Secant Modulus, TD	124 MPa	18000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	<= 237 °C	<= 459 °F	Peak Melting Point; ExxonMobil

Thermal Properties	Metric	English	^{method} Comments
Optical Properties	Metric	English	Comments
Haze	2.2 %	2.2 %	ASTM D1003
Gloss	87 %	87 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	11 lbf	ExxonMobil Method

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