

ExxonMobil Exceed™ 4518PA Premium Cast Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Blow Molding Grade

Material Notes:

Exceed 4518PA resin is a hexene copolymer produced using ExxonMobil Chemicals Exxpol® Technology. Films made from 4518PA resin have outstanding tensile properties and impact and puncture toughness. These superior properties, along with excellent drawability, make this a versatile resin for both monolayer and multilayer cast stretch film. Availability: Latin America, North America and South America Additive: Antiblock: No Slip: No Processing Aid: No Thermal Stabilizer: Yes Applications: Cast Film Cast Stretch Film Diaper Backsheet Hygiene Film Packaging Film Personal Care Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Exceed-4518PA-Premium-Cast-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ExxonMobil Method
Melt Flow	4.5 g/10 min	4.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.34 MPa	1210 psi	at 2% offset; ASTM D882
Film Tensile Strength at Yield, TD	7.31 MPa	1060 psi	at 2% offset; 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	Exxon Mobil Method
Elmendorf Tear Strength, MD	7.382 g/micron	187.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	22.6 g/micron	575 g/mil	ASTM D1922
Dart Drop	6.89 g/micron	175 g/mil	ASTM D1709A
Film Tensile Strength at Break, MD	66.9 MPa	9700 psi	ASTM D882
Film Tensile Strength at Break, TD	48.1 MPa	6970 psi	ASTM D882
1% Secant Modulus, MD	101 MPa	14700 psi	ASTM D882
1% Secant Modulus, TD	124 MPa	18000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	114 °C	237 °F	Peak Melting Temperature; ExxonMobil Method

Optical Properties	Metric	English	Comments
Haze	2.2 %	2.2 %	ASTM D1003
Gloss	87 %	87 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Features	Thermal Stabilizer	

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