

ExxonMobil Exceed™ 4518PA Metallocene Polyethylene Resin (European Grade)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Exceed 4581PA is a metallocene ethylene-hexene copolymer. Films made of Exceed 4581PA 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 multiplayer packaging and cast stretch film.

Availability: Africa & Middle East and Europe

Additive: Antiblock: NoSlip: No Processing Aid: NoThermal Stabilizer: Yes

Applications: Bag in BoxBarrier Food PackagingBlown FilmCast FilmCast Stretch FilmDiaper Backsheet Form Fill and Seal PackagingHygiene FilmPackaging FilmsPersonal Care

Information provided by ExxonMobil

Order this product through the following link:
http://www.lookpolymers.com/polymer_ExxonMobil-Exceed-4518PA-Metallocene-Polyethylene-Resin-European-Grade.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
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

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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