

ExxonMobil Exact™ 4160 Series Ethylene-based Plastomer Resin

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Product Description: Exact 4160 is an ethylene-based hexane plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. These resins are designed for blown film applications requiring high impact and puncture resistance. They also exhibit excellent heat sealing performance. **Availability:** Latin America, North America and South America **Applications:** Blown Film Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Exact-4160-Series-Ethylene-based-Plastomer-Resin.php

Physical Properties	Metric	English	Comments
Density	0.895 g/cc	0.0323 lb/in ³	ExxonMobil method
Melt Flow	1.1 g/10 min	1.1 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	4.55 MPa	660 psi	ASTM D882
Film Tensile Strength at Yield, TD	4.07 MPa	590 psi	ASTM D882
Film Elongation at Break, MD	430 %	430 %	ASTM D882
Film Elongation at Break, TD	620 %	620 %	ASTM D882
Film Elongation at Yield, MD	10 %	10 %	ASTM D882
Film Elongation at Yield, TD	9.0 %	9.0 %	ASTM D882
Puncture Energy	7.91 J	5.83 ft-lb	ExxonMobil Method
Elmendorf Tear Strength MD	150 g	150 g	ASTM D1922
Elmendorf Tear Strength TD	280 g	280 g	ASTM D1922
Dart Drop Test	1200 g	2.65 lb	ASTM D1709A
Film Tensile Strength at Break, MD	65.5 MPa	9500 psi	ASTM D882
Film Tensile Strength at Break, TD	68.9 MPa	10000 psi	ASTM D882
1% Secant Modulus, MD	57.2 MPa	8300 psi	ASTM D882
1% Secant Modulus, TD	64.1 MPa	9300 psi	ASTM D882

Thermal Properties	Metric	English	Comments
	<= 194 °C	<= 381 °F	Peak Melting Point; ExxonMobil

<small>Melting Point</small> Thermal Properties	Metric	English	<small>method</small> Comments
Optical Properties	Metric	English	Comments
Haze	1.1 %	1.1 %	ASTM D1003
Gloss	89 %	89 %	45°; ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	18 lbf	ExxonMobil Method

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