

ExxonMobil EXACT™ 4151 Plastomer for Cast Film

Category : Polymer , Film , Thermoplastic , Elastomer, TPE

Material Notes:

Product Description: Exact 4151 is an ethylene-based hexane plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. Exact 4151 is designed for both monolayer multilayer coextruded cast and blown film applications requiring low sealing temperatures, high oxygen transmission, and high toughness. Typical applications include seal layers for lamination films used in meat, poultry, and fresh produce packaging. **Availability:** Latin America, North America and South America **Additive:** Antiblock: NoSlip: No **Thermal Stabilizer:** Yes **Applications:** Cast Film Lamination Film **Information provided by ExxonMobil Chemical**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-EXACT-4151-Plastomer-for-Cast-Film.php

Physical Properties	Metric	English	Comments
Density	0.895 g/cc	0.0323 lb/in ³	ExxonMobil Method
Thickness	25.4 microns	1.00 mil	
Melt Flow	2.2 g/10 min	2.2 g/10 min	ExxonMobil Method

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	5.45 MPa	790 psi	ASTM D882
Film Tensile Strength at Yield, TD	4.07 MPa	590 psi	ASTM D882
Film Elongation at Break, MD	410 %	410 %	ASTM D882
Film Elongation at Break, TD	640 %	640 %	ASTM D882
Film Elongation at Yield, MD	10 %	10 %	ASTM D882
Film Elongation at Yield, TD	9.0 %	9.0 %	ASTM D882
Puncture Energy	5.39 J	3.97 ft-lb	ExxonMobil Method
Elmendorf Tear Strength, MD	3.54 g/micron	90.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	11.0 g/micron	280 g/mil	ASTM D1922
Dart Drop	37.0 g/micron	940 g/mil	ASTM D1709A
Film Tensile Strength at Break, MD	84.8 MPa	12300 psi	ASTM D882
Film Tensile Strength at Break, TD	69.6 MPa	10100 psi	ASTM D882
1% Secant Modulus, MD	55.8 MPa	8100 psi	ASTM D882
1% Secant Modulus, TD	64.1 MPa	9300 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	87.8 °C	190 °F	Peak Melting Temperature; ExxonMobil Method
Crystallization Temperature	71.0 °C	160 °F	ExxonMobil Method
Vicat Softening Point	76.1 °C	169 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.40 %	0.40 %	ASTM D1003
Gloss	93 %	93 %	ASTM D2457

Descriptive Properties	Value	Comments
Puncture Force	13 lbf	ExxonMobil Method

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