

ExxonMobil EXACT™ 3131 Plastomer for Cast Film Applications

Category : Polymer , Film , Thermoplastic , Elastomer , TPE

Material Notes:

Product Description: Exact 3131 is an ethylene-based hexen plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. Exact 3131 is designed for both monolayer and multilayer coextruded cast film applications requiring excellent toughness and heat sealing performance. Typical applications include heat seal layers in food packaging. **Availability:** Latin America, North America and South America **Additive:** Antiblock: NoSlip: No Thermal Stabilizer: Yes**Applications:**Cast FilmIndustrial Packaging Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-EXACT-3131-Plastomer-for-Cast-Film-Applications.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in³	ExxonMobil Method
Thickness	25.4 microns	1.00 mil	
Melt Flow	3.5 g/10 min	3.5 g/10 min	ExxonMobil Method

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	5.24 MPa	760 psi	ASTM D882
Film Tensile Strength at Yield, TD	4.55 MPa	660 psi	ASTM D882
Film Elongation at Break, MD	460 %	460 %	ASTM D882
Film Elongation at Break, TD	630 %	630 %	ASTM D882
Film Elongation at Yield, MD	10.3 %	10.3 %	ASTM D882
Film Elongation at Yield, TD	8.5 %	8.5 %	ASTM D882
Puncture Energy	61.8 J	45.6 ft-lb	ExxonMobil Method
Elmendorf Tear Strength, MD	6.69 g/micron	170 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	13.8 g/micron	350 g/mil	ASTM D1922
Dart Drop	41.3 g/micron	1050 g/mil	ASTM D1709A
Film Tensile Strength at Break, MD	73.70 MPa	10690 psi	ASTM D882
Film Tensile Strength at Break, TD	60.8 MPa	8820 psi	ASTM D882
1% Secant Modulus, MD	67.6 MPa	9800 psi	ASTM D882
1% Secant Modulus, TD	74.5 MPa	10800 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	93.9 °C	201 °F	Peak Melting Temperature; ExxonMobil Method
Crystallization Temperature	76.0 °C	169 °F	ExxonMobil Method
Vicat Softening Point	82.8 °C	181 °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	14 lbf	ExxonMobil Method

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