

Product Datasheet



Exact™ 3131

Ethylene-based Plastomer Resin

Product Description

Exact 3131 is an ethylene-based hexene 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.

General

Availability ¹	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Cast Film	▪ Food Packaging Heat Seal Layers	▪ Industrial Packaging
Form(s)	▪ Pellets		
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505
Melt Index ² (190°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Peak Melting Temperature	203 °F	95 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	181 °F	82.6 °C	ExxonMobil Method
Crystallization Peak, T _c	171 °F	77 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	780 psi	5.4 MPa	ASTM D882
Tensile Strength at Yield TD	550 psi	3.8 MPa	ASTM D882
Tensile Strength at Break MD	9800 psi	70 MPa	ASTM D882
Tensile Strength at Break TD	7800 psi	50 MPa	ASTM D882
Elongation at Break MD	440 %	440 %	ASTM D882
Elongation at Break TD	650 %	650 %	ASTM D882
Secant Modulus MD	8800 psi	61 MPa	ASTM D882
Secant Modulus TD	10000 psi	70 MPa	ASTM D882
Dart Drop Impact	790 g	790 g	ASTM D1709A
Elmendorf Tear Strength MD	210 g	210 g	ASTM D1922
Elmendorf Tear Strength TD	480 g	480 g	ASTM D1922
Puncture Force	14 lbf	61 N	ExxonMobil Method
Puncture Energy	47 in-lb	5.3 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	92	92	ASTM D2457
Haze	0.5 %	0.5 %	ASTM D1003

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Processing Statement

Film (1 mil / 25.4 micron) made from Exact 3131 on a 3.5 inch cast film line with a 5 inch melt curtain, 80°F (27°C) chill roll temperature at a 500 ft/min take-off speed and a melt temperature between 470-530°F (243-277°C).

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**Exact™ 3131**
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Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

² Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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