

Exact™ 3139

Ethylene-based Plastomer Resin

Product Description

Exact 3139 is an ethylene-based hexene copolymer produced by ExxonMobil Chemical's EXXPOL® Catalyst Technology. Exact 3139 is designed for both monolayer and multilayer coextruded cast film applications requiring excellent toughness and heat seal performance.

General

Availability ¹	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Cast Film	▪ Food Packaging Seal Layers	▪ Lamination Film
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)	7.5 g/10 min	7.5 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	176 °F	79.9 °C	ExxonMobil Method
Crystallization Peak, T _c	170 °F	77 °C	ExxonMobil Method

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	740 psi	5.1 MPa	ASTM D882
Tensile Strength at Yield TD	610 psi	4.2 MPa	ASTM D882
Tensile Strength at Break MD	8300 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	6400 psi	44 MPa	ASTM D882
Elongation at Break MD	530 %	530 %	ASTM D882
Elongation at Break TD	680 %	680 %	ASTM D882
Secant Modulus MD	8300 psi	58 MPa	ASTM D882
Secant Modulus TD	9900 psi	68 MPa	ASTM D882
Dart Drop Impact	570 g	570 g	ASTM D1709A
Elmendorf Tear Strength MD	360 g	360 g	ASTM D1922
Elmendorf Tear Strength TD	680 g	680 g	ASTM D1922
Puncture Force	12 lbf	51 N	ExxonMobil Method
Puncture Energy	44 in·lb	5.0 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 3139 on a 3.5 inch cast film line with a 5 inch melt curtain, 80°F (27°C) chill temperature at a 500 ft/min take-off speed and a melt temperature between 470-530°F (243-277°C).

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Notes

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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