ExxonMobil

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/cm³	0.900	g/cm³	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, Tc	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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