

Exact™ 3139A

Ethylene-based Plastomer Resin

Product Description

Exact™ 3139A is an ethylene-based hexene copolymer produced by ExxonMobil Chemical's EXXPOL® Catalyst Technology. It is designed for both monolayer and multilayer coextruded cast film applications requiring excellent toughness and heat seal performance. TnPP is not intentionally added to Exact™ 3139A resin.

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	▪ 03/30/2020		

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.

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

Exact™ 3139A
Ethylene-based Plastomer Resin

Processing Statement

Film (1 mil / 25.4 micron) made 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).

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

©2022 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com