

Exact™ 5371

Ethylene-based Plastomer Resin

Product Description

Exact™ 5371 plastomer resin is an ethylene 1-octene copolymer produced using a proprietary metallocene technology. It exhibits outstanding plastic and elastomeric properties including superior toughness. Exact™ 5371 is designed for modification of polypropylene and polyethylene in a wide range of applications such as injection molding, extrusion blow molding, blown and cast film, and profile extrusion.

Key Features

- Premium low temperature impact modifier
- Free-flowing pellets
- Superior toughness and tear strength

General

Availability ¹	<ul style="list-style-type: none"> ▪ Africa & Middle East ▪ Asia Pacific 	<ul style="list-style-type: none"> ▪ Europe ▪ Latin America 	<ul style="list-style-type: none"> ▪ North America
Applications	<ul style="list-style-type: none"> ▪ Compounding and TPO ▪ General purpose elastomer 	<ul style="list-style-type: none"> ▪ Injection Molding ▪ Polymer Modification 	<ul style="list-style-type: none"> ▪ Shoe sole, foam, and footwear
Form(s)	<ul style="list-style-type: none"> ▪ Pellets 		
Revision Date	<ul style="list-style-type: none"> ▪ 10/22/2020 		

Physical

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.868 g/cm ³	0.868 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10 g/10 min	10 g/10 min	ASTM D1238

Hardness

	Typical Value (English)	Typical Value (SI)	Test Based On
Durometer Hardness			ExxonMobil Method
Shore A	68	68	
Shore D	17	17	

Mechanical

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress ²	> 830 psi	> 5.7 MPa	ExxonMobil Method
Tensile Stress at 100% (73°F (23°C))	330 psi	2.3 MPa	ExxonMobil Method
Elongation at Break ²	> 800 %	> 800 %	ExxonMobil Method
Flexural Modulus - 1% Secant	1900 psi	13 MPa	ExxonMobil Method

Elastomers

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 300% (73°F (23°C))	421 psi	2.90 MPa	ExxonMobil Method
Tear Strength (Die C)	196 lbf/in	34.3 kN/m	ExxonMobil Method
Mooney Viscosity (ML 1+4, 257°F (125°C))	8 MU	8 MU	ExxonMobil Method

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	123 °F	50.6 °C	ExxonMobil Method
Peak Melting Temperature	136 °F	58 °C	ExxonMobil Method

Additional Information

This product is talc dusted.

Exact™ 5371
Ethylene-based Plastomer Resin

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

Tensile testing was conducted at a crosshead speed of 20 in/min.

Physical properties were measured on compression molded specimens.

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 All specimens reached extension limit, did not break.

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

©2021 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 Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com