

Exxelor™ PO 1020

Polymer Resin

Product Description

Exxelor PO 1020 polymer resin is a high performance maleic anhydride functionalized homopolypropylene produced by reactive extrusion. It has been primarily designed to add polarity to polypropylene matrices and in particular to improve polypropylene reactivity with amino-silane treated glass reinforcements. Its high content of maleic anhydride allows its use at low treat levels while maintaining optimum application properties.

This grade is designed to:

- Function as a coupling agent between reinforcing materials, such as glass fibers and inorganic fillers, and polypropylene.
- Achieve compatibility in polypropylene/polyamide alloys.
- Achieve compatibility between polyolefins and more polar polymers that are capable of interacting with maleic anhydride for alloying, recycling or co-extrusion purposes.
- Improve polypropylene-to-metal adhesion properties.

Key Features

Performance enhancements in glass-filled polypropylene:

- Improved cost/performance balance compared to earlier generation modifiers.
- Easy molding of highly glass-filled compounds and/or complex and thin parts due to its high properties.
- Outstanding unnotched Izod and Charpy impact performance.
- Excellent notched Izod and Charpy impact resistance.
- Improved tensile and flexural 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
Revision Date	<ul style="list-style-type: none"> 12/20/2012 		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/1.2 kg	110 g/10 min	110 g/10 min	
230°C/2.16 kg	430 g/10 min	430 g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/1.2 kg	110 g/10 min	110 g/10 min	
230°C/2.16 kg	430 g/10 min	430 g/10 min	
Maleic Anhydride Graft Level ²	High	High	FTIR EPK-04 QT-02
Volatiles	< 0.30 %	< 0.30 %	AM-S 350.03

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Peak Melting Temperature	324 °F	162 °C	ExxonMobil Method

Optical	Typical Value (English)	Typical Value (SI)	Test Based On
Yellowness Index	< 30 YI	< 30 YI	ASTM E313

Additional Information

Storage and Handling: Comprehensive material safety data sheets are provided to recommend safe practices during usage. For easy handling and storage, this grade is supplied as free-flowing pellets normally packed in 25 kg bags (50 bags per pallet), 450 kg octabins or 1 ton supersacks.

Legal Statement

For detailed Product Stewardship information, please contact Customer Service.

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use.



Exxelor™ PO 1020
Polymer Resin

Processing Statement

Exxelor PO 1020 resin can be added to polypropylene to achieve optimum dispersion within the glass-reinforced matrix in order to obtain the best performance. Compounding parameters that can lead to optimized performance include extruder type, screw design, barrel temperature, screw speed, throughput, residence time and material feeding sequence. Our experienced technical service engineers and chemists are always on hand to help you in achieving the best performance from your processing and compounding operations.

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 MA level is typically in the range of 0.5 to 1.0 wt%.

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

©2015 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

