

# Exceed™ Flow m 0533.MQ

(Legacy name: Enable™ 3305MQ)

## Metallocene Polyethylene

### Product Description

Exceed™ Flow m 0533.MQ resin is a medium density ethylene 1-hexene copolymer. Exceed™ metallocene polyethylene resins offer an outstanding balance between processing and film properties, including tensile, impact and puncture. Easier processing and excellent properties lead to significant high pressure MDPE replacement in many applications, yet with superior drawdown and enhanced toughness. TnPP is not intentionally added to Exceed™ Flow m 0533.MQ resin.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>	<ul style="list-style-type: none"> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Antiblock: No</li> <li>Slip: No</li> </ul>	<ul style="list-style-type: none"> <li>Processing Aid: No</li> <li>Thermal Stabilizer: Yes</li> </ul>	
Applications	<ul style="list-style-type: none"> <li>Geomembrane</li> </ul>		
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Revision Date	<ul style="list-style-type: none"> <li>05/13/2021</li> </ul>		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.933 g/cm <sup>3</sup>	0.933 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	0.50 g/10 min	0.50 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	24 g/10 min	24 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	124 °F	51 °C	ASTM D648
Vicat Softening Temperature	244 °F	118 °C	ASTM D1525
Peak Melting Temperature	252 °F	122 °C	ExxonMobil Method

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield <sup>2</sup>	2500 psi	17 MPa	ASTM D638
Tensile Strength at Break <sup>2</sup>	5500 psi	38 MPa	ASTM D638
Elongation at Yield <sup>2</sup>	10 %	10 %	ASTM D638
Elongation at Break <sup>2</sup>	790 %	790 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	83000 psi	570 MPa	
Tangent <sup>3</sup>	110000 psi	790 MPa	
Environmental Stress-Crack Resistance			ASTM D1693B
10% Igepal, F50	> 1800 hr	> 1800 hr	
100% Igepal	> 1800 hr	> 1800 hr	
Stress Crack Resistance; Notched Constant Tensile Load Test <sup>4</sup>	> 1000 hr	> 1000 hr	ASTM D5397
Durometer Hardness (Shore D, 15 sec)	50	50	ASTM D2240

### 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.

**Exceed™ Flow m 0533.MQ**  
Metallocene Polyethylene**Notes**

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

<sup>2</sup> Testing performed at 2 in/min on Type IV bars from plaque compression molded based on ASTM D4703

<sup>3</sup> type 1

<sup>4</sup> ExxonMobil has tested 30% NCTL (based on ASTM D5397) on compression molded plaques, both internally and at third party industry labs. All individual test specimens have surpassed 1000 hours. Product performance in fully formulated geomembrane sheets needs to be validated by the end user.

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

©2025 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](http://exxonmobilchemical.com)