

# Vistamaxx™ Performance Polymer 3980FL

## Propylene Elastomer

### Product Description

Vistamaxx 3980FL is primarily composed of isotactic propylene repeat units with random ethylene distribution. It is produced using ExxonMobil's proprietary metallocene catalyst technology. The 'FL' designates this product passes ExxonMobil's test for film appearance with regard to gels, as needed for performance film applications ('A' rating).

### Key Features

- Suitable for a wide range of cast and blown film, molding and various polymer modification and compounding applications.
- Can be blended with PP, PE and other polyolefins to reduce stress-whitening and improve impact properties.
- Excellent adhesion to conventional and metallocene PP and PE for exceptional extrusion coating, lamination and tie-layer performance.
- Very low seal initiation temperature combined with high seal strength when used as a sealing layer of co-extruded structures.
- Good optical properties.
- Good chemical resistance to aqueous systems and non-hydrocarbon based fluids.
- May be used in food contact applications (see FDA and EU notes).
- RoHS compliant.

### 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>
Applications	<ul style="list-style-type: none"> <li>▪ Blown Film</li> <li>▪ Cast Film</li> </ul>	<ul style="list-style-type: none"> <li>▪ Compounding</li> <li>▪ Molding</li> </ul>	<ul style="list-style-type: none"> <li>▪ Polymer Modification</li> </ul>
Uses	<ul style="list-style-type: none"> <li>▪ Compounding</li> </ul>	<ul style="list-style-type: none"> <li>▪ Film</li> </ul>	<ul style="list-style-type: none"> <li>▪ Packaging</li> </ul>
RoHS Compliance	<ul style="list-style-type: none"> <li>▪ RoHS Compliant</li> </ul>		
Form(s)	<ul style="list-style-type: none"> <li>▪ Pellets</li> </ul>		
Revision Date	<ul style="list-style-type: none"> <li>▪ 07/14/2020</li> </ul>		

### Physical

	Typical Value (English)	Typical Value (SI)	Test Based On
Density <sup>2</sup>	0.879 g/cm <sup>3</sup>	0.879 g/cm <sup>3</sup>	ExxonMobil Method
Melt Index <sup>2</sup> (190°C/2.16 kg)	3.6 g/10 min	3.6 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) <sup>2</sup> (230°C/2.16 kg)	8 g/10 min	8 g/10 min	ExxonMobil Method
Ethylene Content	9 wt%	9 wt%	ExxonMobil Method

### Hardness

	Typical Value (English)	Typical Value (SI)	Test Based On
Durometer Hardness (Shore D)	34	34	ExxonMobil Method

### Mechanical

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100%	950 psi	6.6 MPa	ExxonMobil Method
Tensile Stress at 300%	1000 psi	7.1 MPa	ExxonMobil Method
Tensile Strength at Yield	1100 psi	7.9 MPa	ExxonMobil Method
Tensile Strength at Break	> 2800 psi	> 19 MPa	ExxonMobil Method
Tensile Set	73 %	73 %	ExxonMobil Method
Elongation at Yield	30 %	30 %	ExxonMobil Method
Elongation at Break	> 800 %	> 800 %	ExxonMobil Method
Flexural Modulus - 1% Secant	17000 psi	120 MPa	ExxonMobil Method

## Vistamaxx™ Performance Polymer 3980FL

### Propylene Elastomer

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tear Strength (Die C)	476 lbf/in	83.4 kN/m	ExxonMobil Method

  

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	171 °F	77.3 °C	ExxonMobil Method

#### Additional Information

Please contact Customer Service for food law compliance information.

For data specific to chemical resistance, refer to the Technical Literature (TL), Chemical Resistance of Vistamaxx Performance Polymer.

#### Legal Statement

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. For detailed Product Stewardship information, please contact Customer Service.

#### Processing Statement

Vistamaxx polymers have a wide temperature processing window. A good starting point for temperatures is 10°C above the highest melting point. This material does not require drying and can be compounded or used in a dry blend. Use conventional processing knowledge to ensure mixing of the materials.

#### 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> Property specified in conventional unit of measure.

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