

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

Physical

	Typical Value (English)	Typical Value (SI)	Test Based On
Density ²	0.879 g/cm ³	0.879 g/cm ³	ExxonMobil Method
Melt Index ² (190°C/2.16 kg)	3.6 g/10 min	3.6 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) ² (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

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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.

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 Property specified in conventional unit of measure.

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

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