

Vistamaxx™ 3980FL

Performance Polymer

Product Description

Vistamaxx 3980FL performance polymer is an olefinic elastomer primarily composed of isotactic propylene repeat units with random ethylene distribution. It is produced using ExxonMobil Chemical's proprietary metallocene catalyst technology. The 'FL' designates this product passes ExxonMobil Chemical'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).
- Although not NSF certified, this product has a Material Supplier Form on file with NSF to facilitate its evaluation for use in applications requiring NSF certification.
- 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"> ▪ 08/06/2013 		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density ²	0.878 g/cm ³	0.878 g/cm ³	ASTM D1505
Melt Index ² (190°C/2.16 kg)	3.7 g/10 min	3.7 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) ²	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)	40	40	ASTM D2240

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100%	818 psi	5.64 MPa	ASTM D638
Tensile Stress at 300%	820 psi	5.65 MPa	ASTM D638
Tensile Strength at Yield	981 psi	6.76 MPa	ASTM D638
Tensile Strength at Break	2500 psi	17.2 MPa	ASTM D638
Tensile Set	85 %	85 %	ExxonMobil Method
Elongation at Yield	30 %	30 %	ASTM D638
Elongation at Break	1682 %	1682 %	ASTM D638
Flexural Modulus - 1% Secant	16000 psi	110 MPa	ASTM D790

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tear Strength (Die C)	464 lbf/in	81.3 kN/m	ASTM D624

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	170 °F	76.7 °C	ExxonMobil Method

Additional Information

In accordance with FDA Food Contact Notification (FCN) 832, this product may be used as articles or components of articles used in contact with all food types under Conditions of Use B through H, as described in Table 2 of 21 CFR 176.170(c).

The base resin in this product is listed in the Chinese Positive List for allowed resins in food packaging materials (issued by China MoH, 11 Oct 2011) and additives that may be present in this product are authorized according to the National Standard of People's Republic of China GB9685-2008, Hygienic Standards for Uses of Additives in Food Containers and Packaging Materials.

EU Note: The composition of this product complies with the requirements for use in contact with food of EU Regulation 10/2011.

Please contact Customer Service for the official food law certificates which provide more detailed 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 performance polymer has 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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