

# 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

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>		

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



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

