

# Vistamaxx™ 3020FL

## Performance Polymer

### Product Description

Vistamaxx 3020FL 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 blown film and thermoforming applications where improved melt strength is desired.
- Can be blended with PP, PE and other polyolefins.
- Excellent toughness in terms of tear and puncture resistance with good processability for stretch hood cores.
- Good optical and sealing properties.
- Good organoleptic properties and may be used in food contact applications (see FDA and EU notes).
- Good chemical resistance to aqueous systems and non-hydrocarbon based fluids.
- 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 <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>• Compounding</li> </ul>	<ul style="list-style-type: none"> <li>• Polymer Modification</li> <li>• Thermoforming</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>• 08/06/2013</li> </ul>		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density <sup>2</sup>	0.874 g/cm <sup>3</sup>	0.874 g/cm <sup>3</sup>	ASTM D1505
Melt Index <sup>2</sup> (190°C/2.16 kg)	1.1 g/10 min	1.1 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) <sup>2</sup>	3 g/10 min	3 g/10 min	ExxonMobil Method
Ethylene Content	11 wt%	11 wt%	ExxonMobil Method

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Durometer Hardness (Shore D)	34	34	ASTM D2240

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100%	636 psi	4.39 MPa	ASTM D638
Tensile Stress at 300%	638 psi	4.40 MPa	ASTM D638
Tensile Strength at Yield	675 psi	4.65 MPa	ASTM D638
Tensile Strength at Break	2460 psi	17.0 MPa	ASTM D638
Tensile Set	49 %	49 %	ExxonMobil Method
Elongation at Yield	47 %	47 %	ASTM D638
Elongation at Break	1756 %	1756 %	ASTM D638
Flexural Modulus - 1% Secant	8650 psi	59.7 MPa	ASTM D790

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tear Strength (Die C)	367 lbf/in	64.3 kN/m	ASTM D624

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Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	155 °F	68.3 °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.

<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)

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