

# Vistamaxx™ 6102FL

## Performance Polymer

  
 Via Cap. Negri, 11—35010 Limena (PD)  
 Italy  
 Tel. +39.049.7663811—Fax +39.049.8840410  
 info@interpolimeri.it

### Product Description

Vistamaxx 6102FL is primarily composed of isotactic propylene repeat units with random ethylene distribution, and 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 applications requiring good melt strength and elasticity.
- Can be blended with PE, PP and other polymers, including styrenic block copolymers.
- Excellent adhesion to conventional and metallocene PP and PE.
- Good cling and tack in stretch film and protective film applications.
- 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> </ul>                                       | <ul style="list-style-type: none"> <li>▪ Cast Film</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>▪ 01/01/2017</li> </ul>                                       |                                                                                     |                                                                   |

| Physical                                               | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|--------------------------------------------------------|-------------------------|-------------------------|-------------------|
| Density <sup>2</sup>                                   | 0.862 g/cm <sup>3</sup> | 0.862 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index <sup>2</sup> (190°C/2.16 kg)                | 1.4 g/10 min            | 1.4 g/10 min            | ASTM D1238        |
| Melt Mass-Flow Rate (MFR) <sup>2</sup> (230°C/2.16 kg) | 3 g/10 min              | 3 g/10 min              | ExxonMobil Method |
| Ethylene Content                                       | 16 wt%                  | 16 wt%                  | ExxonMobil Method |

| Hardness                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|---------------|
| Durometer Hardness (Shore A) | 67                      | 67                 | ASTM D2240    |

| Mechanical                   | Typical Value (English) | Typical Value (SI) | Test Based On     |
|------------------------------|-------------------------|--------------------|-------------------|
| Tensile Stress at 100%       | 324 psi                 | 2.23 MPa           | ASTM D638         |
| Tensile Stress at 300%       | 402 psi                 | 2.77 MPa           | ASTM D638         |
| Tensile Strength at Break    | > 1100 psi              | > 7.58 MPa         | ASTM D638         |
| Tensile Set                  | 12 %                    | 12 %               | ExxonMobil Method |
| Elongation at Break          | > 800 %                 | > 800 %            | ASTM D638         |
| Flexural Modulus - 1% Secant | 2090 psi                | 14.4 MPa           | ASTM D790         |

| Elastomers            | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------|-------------------------|--------------------|---------------|
| Tear Strength (Die C) | 190 lbf/in              | 33.3 kN/m          | ASTM D624     |

| Thermal                     | Typical Value (English) | Typical Value (SI) | Test Based On     |
|-----------------------------|-------------------------|--------------------|-------------------|
| Vicat Softening Temperature | 129 °F                  | 53.9 °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.

**Vistamaxx™ 6102FL**  
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)

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