

# Vistamaxx™ 6102

## Performance Polymer

### Product Description

Vistamaxx 6102 is primarily composed of isotactic propylene repeat units with random ethylene distribution, and is produced using ExxonMobil's proprietary metallocene catalyst technology. It has excellent elastomeric properties, is easy to process and is compatible with a wide variety of materials. It is particularly good for thermoplastic and polyolefinic blends where a balance of flexibility, transparency and impact performance is required.

### Key Features

- Suitable for a wide range of film and compounding applications.
- Other typical applications include calendered or extruded profiles, foamed or blown molded goods and thermoformed products.
- Excellent adhesion to conventional or metallocene PP and PE.
- Very good elasticity, toughness and melt strength.
- Very low seal initiation temperature combined with high seal strength when used as sealing layer of co-extruded structures.
- Very good chemical resistance and long term aging.
- RoHS compliant.

### General

#### Availability<sup>1</sup>

- Africa & Middle East
- Asia Pacific
- Europe
- Latin America
- North America

#### Applications

- Blown Film
- Blown Molded Goods
- Calendered Profiles
- Cast Film
- Extruded Profiles
- Foamed Goods
- PP/TPE Modification

#### Uses

- Compounding
- Film
- Packaging

#### RoHS Compliance

- RoHS Compliant

#### Form(s)

- Pellets

#### Revision Date

- 01/01/2017

### Physical

#### Density<sup>2</sup>

#### Typical Value (English)

0.862 g/cm<sup>3</sup>

#### Typical Value (SI)

0.862 g/cm<sup>3</sup>

#### Test Based On

ASTM D1505

#### Melt Index<sup>2</sup> (190°C/2.16 kg)

#### Typical Value (English)

1.4 g/10 min

#### Typical Value (SI)

1.4 g/10 min

#### Test Based On

ASTM D1238

#### Melt Mass-Flow Rate (MFR)<sup>2</sup> (230°C/2.16 kg)

#### Typical Value (English)

3 g/10 min

#### Typical Value (SI)

3 g/10 min

#### ExxonMobil Method

#### Ethylene Content

#### Typical Value (English)

16 wt%

#### Typical Value (SI)

16 wt%

#### ExxonMobil Method

### Hardness

#### Durometer Hardness (Shore A)

#### Typical Value (English)

67

#### Typical Value (SI)

67

#### Test Based On

ASTM D2240

### Mechanical

#### Tensile Stress at 100%

#### Typical Value (English)

324 psi

#### Typical Value (SI)

2.23 MPa

#### Test Based On

ASTM D638

#### Tensile Stress at 300%

#### Typical Value (English)

402 psi

#### Typical Value (SI)

2.77 MPa

#### Test Based On

ASTM D638

#### Tensile Strength at Break

#### Typical Value (English)

> 1100 psi

#### Typical Value (SI)

> 7.58 MPa

#### Test Based On

ASTM D638

#### Tensile Set

#### Typical Value (English)

12 %

#### Typical Value (SI)

12 %

#### ExxonMobil Method

#### Elongation at Break

#### Typical Value (English)

> 800 %

#### Typical Value (SI)

> 800 %

#### Test Based On

ASTM D638

#### Reaxural Modulus - 1% Secant

#### Typical Value (English)

2090 psi

#### Typical Value (SI)

14.4 MPa

#### Test Based On

ASTM D790

### Elastomers

#### Tear Strength (Die C)

#### Typical Value (English)

190 lbf/in

#### Typical Value (SI)

33.3 kN/m

#### Test Based On

ASTM D624

### Thermal

#### Vicat Softening Temperature

#### Typical Value (English)

129 °F

#### Typical Value (SI)

53.9 °C

#### Test Based On

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™ 6102**  
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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