

Vistamaxx™ Performance Polymer 6102

Propylene Elastomer

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 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 ▪ Blown Molded Goods ▪ Calendered Profiles | <ul style="list-style-type: none"> ▪ Cast Film ▪ Extruded Profiles ▪ Foamed Goods | <ul style="list-style-type: none"> ▪ PP/TPE 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"> ▪ 07/14/2020 | | |

| Physical | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|-------------------------|-------------------|
| Density ² | 0.862 g/cm ³ | 0.862 g/cm ³ | ExxonMobil Method |
| Melt Index ² (190°C/2.16 kg) | 1.4 g/10 min | 1.4 g/10 min | ASTM D1238 |
| Melt Mass-Flow Rate (MFR) ² (230°C/2.16 kg) | 3.0 g/10 min | 3.0 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 | ExxonMobil Method |

| Mechanical | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|-------------------|
| Tensile Stress at 100% | 320 psi | 2.2 MPa | ExxonMobil Method |
| Tensile Stress at 300% | 400 psi | 2.8 MPa | ExxonMobil Method |
| Tensile Strength at Break | > 1100 psi | > 7.6 MPa | ExxonMobil Method |
| Tensile Set | 12 % | 12 % | ExxonMobil Method |
| Elongation at Break | > 800 % | > 800 % | ExxonMobil Method |
| Flexural Modulus - 1% Secant | 2100 psi | 14 MPa | ExxonMobil Method |

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

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

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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.

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.

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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