

Vistamaxx™ Performance Polymer 3000

Propylene Elastomer

Product Description

Vistamaxx 3000 is primarily composed of isotactic propylene repeat units with random ethylene distribution, and is produced using ExxonMobil's proprietary metallocene catalyst technology. It has moderate elastomeric properties, is easy to process and is compatible with a wide variety of hydrocarbon based polymers. It is available as free flowing pellets.

Key Features

- Suitable for a wide range of film, sheeting and compounding applications requiring good durability and mechanical properties.
- Excellent adhesion to conventional or metallocene PP and PE.
- Very good elasticity, toughness and clarity.
- 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 ▪ Calendered Sheeting 	<ul style="list-style-type: none"> ▪ Cast Film ▪ Extruded Sheeting 	<ul style="list-style-type: none"> ▪ Injection Molding ▪ PP/TPO 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	0.873 g/cm ³	0.873 g/cm ³	ExxonMobil Method
Melt Index ² (190°C/2.16 kg)	3.7 g/10 min	3.7 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) ² (230°C/2.16 kg)	8 g/10 min	8 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)	27	27	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100%	680 psi	4.7 MPa	ExxonMobil Method
Tensile Stress at 300%	700 psi	4.8 MPa	ExxonMobil Method
Tensile Strength at Yield	760 psi	5.2 MPa	ExxonMobil Method
Tensile Strength at Break	> 2000 psi	> 14 MPa	ExxonMobil Method
Tensile Set	41 %	41 %	ExxonMobil Method
Elongation at Yield	40 %	40 %	ExxonMobil Method
Elongation at Break	> 800 %	> 800 %	ExxonMobil Method
Flexural Modulus - 1% Secant	9000 psi	62 MPa	ExxonMobil Method

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tear Strength (Die C)	365 lbf/in	63.9 kN/m	ExxonMobil Method

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Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	149 °F	65.1 °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.

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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