

Vistamaxx™ 6102

Propylene-based Elastomer

Product Description	Key Features
Vistamaxx 6102 propylene-based elastomer is an olefinic elastomer produced using ExxonMobil Chemical's EXXPOL™ 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.	<ul style="list-style-type: none"> • Suitable for a wide range of blown and cast film applications. • Other typical applications include calendered or extruded profiles, foamed or blown molded goods and nonwovens. • Excellent adhesion to conventional or metallocene PP and PE. • Very good elasticity and toughness. • 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. • Particularly good for thermoplastic and polyolefinic blends where a balance of flexibility, transparency and impact performance is required. • EU and China 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 • South 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"> • 11/04/2011 		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.862 g/cm ³	0.862 g/cm ³	ASTM D1505
Melt Index ² (190°C/2.16 kg)	1.3 g/10 min	1.3 g/10 min	ExxonMobil Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0 g/10 min	3.0 g/10 min	ISO 1133
Ethylene Content	16.0 wt%	16.0 wt%	ASTM D3900

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Durometer Hardness			ASTM D2240
Shore A, 15 sec, 73°F (23°C)	67	67	

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Flexural Modulus - 1% Secant (73°F (23°C))	1650 psi	11.4 MPa	ASTM D790
Flexural Modulus - 1% Secant (73°F (23°C))	1650 psi	11.4 MPa	ISO 178

Typical properties: these are not to be construed as specifications.

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ExxonMobil Chemical Vistamaxx™ 6102
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Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Set (73°F (23°C))	13 %	13 %	ASTM D412
Tensile Set (73°F (23°C))	13 %	13 %	ISO 2285
Tensile Stress at 100% (73°F (23°C))	308 psi	2.12 MPa	ASTM D412
Tensile Stress at 100% (73°F (23°C))	308 psi	2.12 MPa	ISO 37
Tensile Stress at 300% (73°F (23°C))	388 psi	2.68 MPa	ASTM D412
Tensile Stress at 300% (73°F (23°C))	388 psi	2.68 MPa	ISO 37
Tensile Strength at Break (73°F (23°C))	2020 psi	13.9 MPa	ASTM D412
Tensile Stress at Break (73°F (23°C))	2020 psi	13.9 MPa	ISO 37
Elongation at Break (73°F (23°C))	860 %	860 %	ASTM D412
Tensile Strain at Break (73°F (23°C))	860 %	860 %	ISO 37
Tear Strength (73°F (23°C), Die C)	177 lbf/in	31.0 kN/m	ASTM D624
Tear Strength			ISO 34-1
73°F (23°C), Method Bb, Angle (Nicked)	180 lbf/in	31 kN/m	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	138 °F	59.0 °C	ASTM D1525
Vicat Softening Temperature	138 °F	59.0 °C	ISO 306/A

Additional Information

All physical properties were measured on specimens cut from compression molded plaques per ASTM D 4703, Procedure A, Type I and conditioned at 23°C (73°F) for a minimum of 40 hours per ASTM D 618 prior to testing. All stress/strain tests used specimens cut with a Type C die and tested with a grip separation of 25 mm (1") and a crosshead speed of 20 in/min. Tensile set was determined from a specimen held at 100% strain for 10 minutes and allowed to rest for 10 minutes.

For applications requiring FDA certification, please contact your ExxonMobil Chemical representative for compliance information. For information specific to product handling and storage, refer to the TechNote, "Vistamaxx Propylene-based Elastomer Guidelines for Storage and Handling". For data specific to chemical resistance, refer to the Technical Literature (TL), "Chemical Resistance of Vistamaxx Propylene-based Elastomers".

Legal Statement

For detailed Product Stewardship information, please contact Customer Service.

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.

Processing Statement

Vistamaxx propylene-based elastomer 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

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 Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

For additional technical, sales and order assistance:

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