ExxonMobil Signature Polymers

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]	▪ 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	▪ 07/14/2020		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Density [2]	0.862	g/cm³	0.862	g/cm³	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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