

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 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"> • 01/01/2017 		

Physical

	Typical Value (English)	Typical Value (SI)	Test Based On
Density ²	0.862 g/cm ³	0.862 g/cm ³	ASTM D1505
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 g/10 min	3 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	ASTM D2240

Mechanical

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100%	324 psi	2.23 MPa	ASTM D638
Tensile Stress at 300%	402 psi	2.77 MPa	ASTM D638
Tensile Strength at Break	> 1100 psi	> 7.58 MPa	ASTM D638
Tensile Set	12 %	12 %	ExxonMobil Method
Elongation at Break	> 800 %	> 800 %	ASTM D638
Flexural Modulus - 1% Secant	2090 psi	14.4 MPa	ASTM D790

Elastomers

	Typical Value (English)	Typical Value (SI)	Test Based On
Tear Strength (Die C)	190 lbf/in	33.3 kN/m	ASTM D624

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	129 °F	53.9 °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.