ExxonMobil

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

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		

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