

Vistamaxx™ 6102FL

Performance Polymer

Product Description

Vistamaxx 6102FL performance polymer is an olefinic elastomer chiefly composed of isotactic propylene repeat units with random ethylene distribution, and is produced using ExxonMobil Chemical's proprietary metallocene catalyst technology. The 'FL' designates this product passes ExxonMobil Chemical's test for film appearance with regard to gels, as needed for performance film applications ('A' rating).

Key Features

- Suitable for a wide range of cast and blown film applications requiring good melt strength and elasticity.
- Can be blended with PE, PP and other polymers, including styrenic block copolymers.
- Excellent adhesion to conventional and metallocene PP and PE.
- Good cling and tack in stretch film and protective film applications.
- Good chemical resistance to aqueous systems and non-hydrocarbon based fluids.
- May be used in food contact applications (see FDA and EU notes).
- Although not NSF certified, this product has a Material Supplier Form on file with NSF to facilitate its evaluation for use in applications requiring NSF certification.
- RoHS compliant.

General

Applications	▪ Blown Film	▪ Cast Film	
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/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	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)	66	66	ASTM D2240

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100%	282 psi	1.94 MPa	ASTM D638
Tensile Stress at 300%	325 psi	2.24 MPa	ASTM D638
Tensile Strength at Break	> 1000 psi	> 6.89 MPa	ASTM D638
Tensile Set	18 %	18 %	ExxonMobil Method
Elongation at Break	> 2000 %	> 2000 %	ASTM D638
Flexural Modulus - 1% Secant	1790 psi	12.3 MPa	ASTM D790

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tear Strength (Die C)	196 lbf/in	34.3 kN/m	ASTM D624

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	126 °F	52.2 °C	ExxonMobil Method

