ExxonMobil

Vistamaxx™ 3980FL

Performance Polymer

Product Description

Vistamaxx 3980FL is primarily composed of isotactic propylene repeat units with random ethylene distribution. It is produced using ExxonMobil's proprietary metallocene catalyst technology. The 'FL' designates this product passes ExxonMobil'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, molding and various polymer modification and compounding applications.
- Can be blended with PP, PE and other polyolefins to reduce stress-whitening and improve impact properties.
- Excellent adhesion to conventional and metallocene PP and PE for exceptional extrusion coating, lamination and tie-layer performance.
- Very low seal initiation temperature combined with high seal strength when used as a sealing layer of co-extruded structures.
- Good optical properties.
- Good chemical resistance to aqueous systems and non-hydrocarbon based fluids.
- May be used in food contact applications (see FDA and EU notes).
- RoHS compliant.

General

Applications	▪ Blown Film ▪ Cast Film	▪ Compounding ▪ Molding	▪ Polymer Modification
Uses	▪ Compounding	▪ Film	▪ Packaging
RoHS Compliance	▪ RoHS Compliant		
Form(s)	▪ Pellets		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Density [2]	0.879	g/cm³	0.879	g/cm³	ASTM D1505
Melt Index [2] (190°C/2.16 kg)	3.6	g/10 min	3.6	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) [2] (230°C/2.16 kg)	8	g/10 min	8	g/10 min	ExxonMobil Method
Ethylene Content	9	wt%	9	wt%	ExxonMobil Method

Hardness	Typical Value (English)		Typical Value (SI)		Test Based On
Durometer Hardness (Shore D)	34		34		ASTM D2240

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at 100%	953	psi	6.57	MPa	ASTM D638
Tensile Stress at 300%	1030	psi	7.10	MPa	ASTM D638
Tensile Strength at Yield	1150	psi	7.92	MPa	ASTM D638
Tensile Strength at Break	> 2800	psi	> 19.3	MPa	ASTM D638
Tensile Set	73	%	73	%	ExxonMobil Method
Elongation at Yield	27	%	27	%	ASTM D638
Elongation at Break	> 800	%	> 800	%	ASTM D638
Flexural Modulus - 1% Secant	17000	psi	117	MPa	ASTM D790

Elastomers	Typical Value (English)		Typical Value (SI)		Test Based On
Tear Strength (Die C)	476	lbf/in	83.4	kN/m	ASTM D624

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	171	°F	77.3	°C	ExxonMobil Method