ExxonMobil

Vistamaxx™ 3020FL

Performance Polymer

Product Description

Vistamaxx 3020FL performance polymer is an olefinic elastomer primarily composed of isotactic propylene repeat units with random ethylene distribution. It 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 blown film and thermoforming applications where improved melt strength is desired.
- Can be blended with PP, PE and other polyolefins.
- Excellent toughness in terms of tear and puncture resistance with good processability for stretch hood cores.
- Good optical and sealing properties.
- Good organoleptic properties and may be used in food contact applications (see FDA and EU notes).
- Good chemical resistance to aqueous systems and non-hydrocarbon based fluids.
- 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 ▪ Compounding	▪ Polymer Modification ▪ Thermoforming	
Uses	▪ Compounding	▪ Film	▪ Packaging
RoHS Compliance	▪ RoHS Compliant		
Form(s)	▪ Pellets		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Density [2]	0.874	g/cm³	0.874	g/cm³	ASTM D1505
Melt Index [2] (190°C/2.16 kg)	1.1	g/10 min	1.1	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) [2]	3	g/10 min	3	g/10 min	ExxonMobil Method
Ethylene Content	11	wt%	11	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%	636	psi	4.39	MPa	ASTM D638
Tensile Stress at 300%	638	psi	4.40	MPa	ASTM D638
Tensile Strength at Yield	675	psi	4.65	MPa	ASTM D638
Tensile Strength at Break	2460	psi	17.0	MPa	ASTM D638
Tensile Set	49	%	49	%	ExxonMobil Method
Elongation at Yield	47	%	47	%	ASTM D638
Elongation at Break	1756	%	1756	%	ASTM D638
Flexural Modulus - 1% Secant	8650	psi	59.7	MPa	ASTM D790

Elastomers	Typical Value (English)		Typical Value (SI)		Test Based On
Tear Strength (Die C)	367	lbf/in	64.3	kN/m	ASTM D624

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Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	155	°F	68.3	°C	ExxonMobil Method