ExxonMobil

Vistamaxx™ 7050FL

Performance Polymer

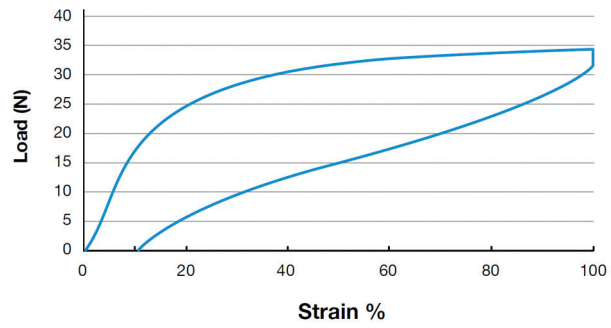
Product Description

Vistamaxx 7050FL 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

- Applicable for hygiene and nonwoven applications, including those that require elasticity.
- Suitable for spunbond and meltblown nonwoven processes.
- Can be blended with PE, PP and other polymers, including styrenic block copolymers.
- Excellent adhesion to conventional and metallocene PP and PE.
- Good chemical resistance to aqueous systems and non-hydrocarbon based fluids.
- RoHS compliant.

First Cycle Hysteresis



General

Applications	▪ Elastic Hygiene Film ▪ Meltblown Nonwovens	▪ Nonwovens and Laminates ▪ Spunbond Nonwovens	
Uses	▪ Hygiene	▪ Nonwovens	▪ Personal Care
RoHS Compliance	▪ RoHS Compliant		
Form(s)	▪ Pellets		

Elastomer Curves	Typical Value (English)		Typical Value (SI)		Test Based On
First Cycle Retractive Force	3.2	lbf	14	N	ExxonMobil Method
First Cycle Load Loss	53	%	53	%	ExxonMobil Method
First Cycle Permanent Set	10	%	10	%	ExxonMobil Method
First Cycle Mechanical Hysteresis	50	%	50	%	ExxonMobil Method

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Density [2]	0.865	g/cm³	0.865	g/cm³	ASTM D1505
Melt Index [2] (190°C/2.16 kg)	20	g/10 min	20	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) [2] (230°C/2.16 kg)	48	g/10 min	48	g/10 min	ASTM D1238
Ethylene Content	13	wt%	13	wt%	ExxonMobil Method

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Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at 100%	394	psi	2.71	MPa	ASTM D638
Tensile Stress at 300%	410	psi	2.83	MPa	ASTM D638
Tensile Strength at Break	> 1400	psi	> 9.65	MPa	ASTM D638
Tensile Set (73°F (23°C))	14	%	14	%	ExxonMobil Method
Elongation at Break	> 1900	%	> 1900	%	ASTM D638
Flexural Modulus - 1% Secant	2980	psi	20.5	MPa	ASTM D790

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	125	°F	51.5	°C	ExxonMobil Method