Vistamaxx™ 7010FL

Performance Polymer

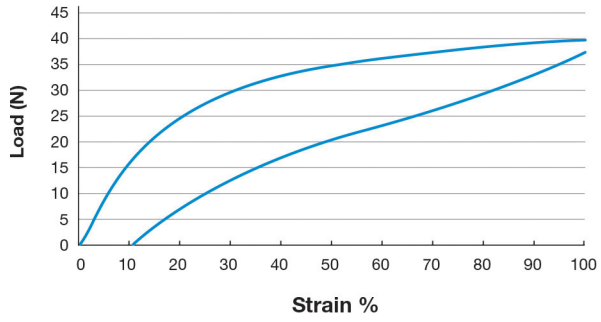
Product Description

Vistamaxx 7010FL 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.
- Suitable for applications in films and laminates that require elastic performance.
- Good compatibility with polyolefin non-woven facing layers used in elastic laminates.
- 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.

First Cycle Hysteresis



General

Applications	▪ Blown Film	▪ Cast Film	▪ Elastic Hygiene Film
Uses	▪ Compounding ▪ Film	▪ Hygiene ▪ Medical/Healthcare Applications	▪ Packaging ▪ Personal Care
RoHS Compliance	▪ RoHS Compliant		
Form(s)	▪ Pellets		

Elastomer Curves	Typical Value	(English)	Typical Value	(SI)	Test Based On
First Cycle Retractive Force	4.3	lbf	19	N	ExxonMobil Method
First Cycle Load Loss	43	%	43	%	ExxonMobil Method
First Cycle Permanent Set	11	%	11	%	ExxonMobil Method
First Cycle Mechanical Hysteresis	41	%	41	%	ExxonMobil Method

Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density [2]	0.861	g/cm³	0.861	g/cm³	ASTM D1505
Melt Index [2] (190°C/2.16 kg)	1.3	g/10 min	1.3	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) [2]	3	g/10 min	3	g/10 min	ExxonMobil Method
Ethylene Content	17	wt%	17	wt%	ExxonMobil Method

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Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress at 100%	268	psi	1.85	MPa	ASTM D638
Tensile Stress at 300%	308	psi	2.12	MPa	ASTM D638
Tensile Strength at Break	> 1000	psi	> 6.89	MPa	ASTM D638
Tensile Set (73°F (23°C))	15	%	15	%	ExxonMobil Method
Elongation at Break	> 2000	%	> 2000	%	ASTM D638
Flexural Modulus - 1% Secant	1650	psi	11.3	MPa	ASTM D790

Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	123	°F	50.8	°C	ExxonMobil Method