

Vistamaxx™ 7810

Performance Polymer

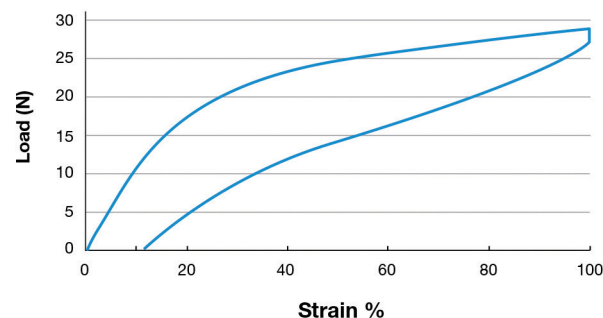
Product Description

Vistamaxx 7810 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.

Key Features

- Applicable for hygiene applications, including those that require elasticity.
- 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.
- RoHS compliant.

First Cycle Hysteresis



General

| | | |
|-----------------|---|---|
| Applications | <ul style="list-style-type: none"> • Blown Film • Cast Film | <ul style="list-style-type: none"> • Elastic Hygiene Film • Laminates |
| Uses | <ul style="list-style-type: none"> • Film | <ul style="list-style-type: none"> • Hygiene • Personal Care |
| RoHS Compliance | <ul style="list-style-type: none"> • RoHS Compliant | |
| Form(s) | <ul style="list-style-type: none"> • Pellets | |

| Elastomer Curves | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------------|-------------------------|--------------------|-------------------|
| First Cycle Retractive Force | 3.4 lbf | 15 N | ExxonMobil Method |
| First Cycle Load Loss | 43 % | 43 % | ExxonMobil Method |
| First Cycle Permanent Set | 10 % | 10 % | ExxonMobil Method |
| First Cycle Mechanical Hysteresis | 40 % | 40 % | ExxonMobil Method |

| Physical | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|-------------------------|---------------|
| Density ² | 0.859 g/cm ³ | 0.859 g/cm ³ | ASTM D1505 |
| Melt Index ² (190°C/2.16 kg) | 1.8 g/10 min | 1.8 g/10 min | ASTM D1238 |
| Melt Mass-Flow Rate (MFR) ² (230°C/2.16 kg) | 4.5 g/10 min | 4.5 g/10 min | ASTM D1238 |

| Mechanical | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|-------------------|
| Tensile Stress at 100% | 218 psi | 1.50 MPa | ASTM D638 |
| Tensile Stress at 300% | 271 psi | 1.87 MPa | ASTM D638 |
| Tensile Strength at Break | > 701 psi | > 4.83 MPa | ASTM D638 |
| Tensile Set | 14 % | 14 % | ExxonMobil Method |
| Elongation at Break | > 800 % | > 800 % | ASTM D638 |
| Flexural Modulus - 1% Secant | 1280 psi | 8.85 MPa | ASTM D790 |



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| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|-------------------|
| Vicat Softening Temperature | 112 °F | 44.5 °C | ExxonMobil Method |

