

Vistamaxx™ Performance Polymer 3020MED

Propylene Elastomer

Product Description

Vistamaxx™ 3020MED is primarily composed of isotactic propylene repeat units with random ethylene distribution. It is produced using ExxonMobil's proprietary metallocene catalyst technology.

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.
- RoHS compliant.

General

| | | | |
|---------------------------|--|---|---|
| Availability ¹ | <ul style="list-style-type: none"> ▪ Africa & Middle East ▪ Asia Pacific | <ul style="list-style-type: none"> ▪ Europe ▪ Latin America | <ul style="list-style-type: none"> ▪ North America |
| Applications | <ul style="list-style-type: none"> ▪ Blown Film ▪ Compounding | <ul style="list-style-type: none"> ▪ Polymer Modification ▪ Thermoforming | |
| Uses | <ul style="list-style-type: none"> ▪ Compounding | <ul style="list-style-type: none"> ▪ Film | <ul style="list-style-type: none"> ▪ Packaging |
| Agency Ratings | <ul style="list-style-type: none"> ▪ ISO 10993-10 ▪ ISO 10993-11 | <ul style="list-style-type: none"> ▪ ISO 10993-4 ▪ ISO 10993-5 | <ul style="list-style-type: none"> ▪ USP 661.1 ▪ USP Class VI |
| RoHS Compliance | <ul style="list-style-type: none"> ▪ RoHS Compliant | | |
| Form(s) | <ul style="list-style-type: none"> ▪ Pellets | | |
| Revision Date | <ul style="list-style-type: none"> ▪ 09/01/2022 | | |

Physical

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|-------------------------|-------------------|
| Density ² (73°F (23°C)) | 0.874 g/cm ³ | 0.874 g/cm ³ | ExxonMobil Method |
| Melt Index ² (190°C/2.16 kg) | 1.2 g/10 min | 1.2 g/10 min | ASTM D1238 |
| Melt Mass-Flow Rate (MFR) ² (230°C/2.16 kg) | 2.5 g/10 min | 2.5 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) | 29 | 29 | ExxonMobil Method |

Mechanical

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|-------------------|
| Tensile Stress at 100% | 680 psi | 4.7 MPa | ExxonMobil Method |
| Tensile Stress at 300% | 730 psi | 5.0 MPa | ExxonMobil Method |
| Tensile Strength at Yield | 760 psi | 5.2 MPa | ExxonMobil Method |
| Tensile Strength at Break | > 2100 psi | > 14 MPa | ExxonMobil Method |
| Tensile Set | 49 % | 49 % | ExxonMobil Method |
| Elongation at Yield | 30 % | 30 % | ExxonMobil Method |
| Elongation at Break | > 800 % | > 800 % | ExxonMobil Method |
| Flexural Modulus - 1% Secant | 9500 psi | 65 MPa | ExxonMobil Method |

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| Elastomers | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------|-------------------------|--------------------|-------------------|
| Tear Strength (Die C) | 372 lbf/in | 65.1 kN/m | ExxonMobil Method |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|-------------------|
| Vicat Softening Temperature | 153 °F | 67.0 °C | ExxonMobil Method |

Additional Information

Please contact Customer Service for food law compliance information.

For data specific to chemical resistance, refer to the Technical Literature (TL), Chemical Resistance of Vistamaxx Performance Polymer.

Legal Statement

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

Processing Statement

Vistamaxx polymers have a wide temperature processing window. A good starting point for temperatures is 10°C above the highest melting point. This material does not require drying and can be compounded or used in a dry blend. Use conventional processing knowledge to ensure mixing of the materials.

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

² Property specified in conventional unit of measure.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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