ExxonMobil Signature Polymers

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]	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Applications	• Blown Film • Compounding	• Polymer Modification • Thermoforming	
Uses	• Compounding	• Film	• Packaging
Agency Ratings	• ISO 10993-10 • ISO 10993-11	• ISO 10993-4 • ISO 10993-5	• USP 661.1 • USP Class VI
RoHS Compliance	• RoHS Compliant		
Form(s)	• Pellets		
Revision Date	• 09/01/2022		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Density [2] (73°F (23°C))	0.874	g/cm³	0.874	g/cm³	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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