



Vistamaxx™

Weather the elements: Advanced roofing protection with APP-modified membranes

Enhance your modified bitumen waterproofing membranes with Vistamaxx™ performance polymers



Flexibility



Cost optimization



Design for recyclability*



Toughness

Data and results presented herein apply specifically to the noted application under this factsheet. Your results may differ depending on factors such as operating conditions, equipment and materials used.

New possibilities for modified bitumen roofing membranes

Vistamaxx™ performance polymers can be used as a modifier for bitumen compounds to help optimize cost and to enhance performance of the final membrane. They can be advantaged alternatives to conventional modifiers like atactic polypropylene (APP). Adding Vistamaxx to your formulation can potentially deliver:

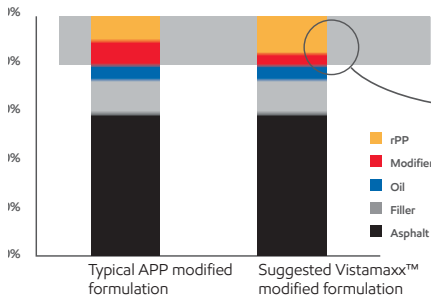
- Similar membrane flexibility at lower level of modifier or improved flexibility at same or higher modifier levels
- Optimize membrane toughness and hardness based on market needs
- Higher filler loading or recycled content incorporation
- Viscosity modification for easier compounding



*Designed with features intended to support recyclability. Actual recyclability depends on factors such as local collection, sortation, and recycling infrastructure, as well as the condition and configuration of the roofing membrane after use. However, access to facilities that accept and process roofing membranes is limited and not widely available.

The charts below illustrate the potential advantages of Vistamaxx™ performance polymers and the grade portfolio for modified bitumen-based roofing compounds.

Figure 1: Formulation comparison between APP and Vistamaxx modified bitumen roofing membranes



APP = atactic polypropylene
rPP = recycled polypropylene content

Figure 2: Detail of the modifier blend composition of APP and Vistamaxx modified bitumen roofing membranes

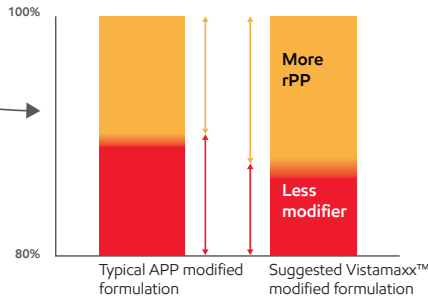
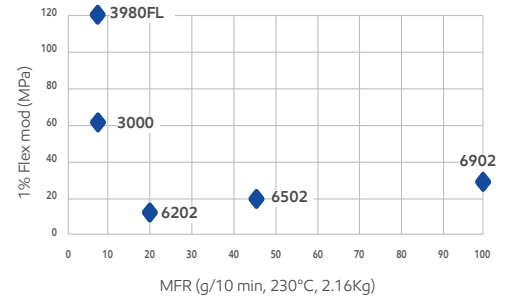


Figure 3: Typical Vistamaxx grades used as flexible modifier in modified APP bitumen roofing membranes



Test methods: MFR based on ASTM D1238 and 1% Flex modulus on ASTM D790

Table 1: Illustration how Vistamaxx grade portfolio can tailor membrane properties

	Typical grades used					Fine tuning special case with Low Viscosity Vistamaxx (LVV)	
	Vistamaxx 3000	Vistamaxx 3980FL	Vistamaxx 6202	Vistamaxx 6502	Vistamaxx 6902	Vistamaxx 8380	Vistamaxx 8880
Pen hardness	=	+	-	-	-	=	+
Foot step	=	+	-	-	-	=	+
Flexibility	=	-	++	+	++	=	-
Ring and ball	=	=	=	-	=	=	=
Viscosity reduction	=	=	+	++	+++	++++	++++

Directional difference between Vistamaxx grades compared to Vistamaxx 3000

Fine tuning special case with Low Viscosity Vistamaxx (LVV) 8380 & 8880

Vistamaxx LVV provides lower viscosity to help optimize processing of recycled bitumen. Adding LVV can reduce the risk of lower molecule weight (LMW) blooming to the surface, enabling longer term flexibility for the final membrane.

Contact us for more information: exxonmobilchemical.com/roofing


Bring your impossible

ExxonMobil Signature Polymers was born from the belief that people fuel progress. From automotive and construction to packaging, agriculture, industrial, and beyond, we leverage the scale and reach of ExxonMobil to deliver the insights and innovations that empower our diverse, global partners to take their businesses to new heights. We continuously work to provide the listen-first, service-driven, game-changing collaboration that unlocks opportunities for our partners and advances and business goals.



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