



# A portfolio of performance products for low-slope roofing applications

Enhance your modified bitumen or TPO roofing membranes with Vistamaxx™ performance polymers or balance properties in your EPDM roofing membranes by using Vistalon™ EPDM high performance rubber.

## **New possibilities for modified bitumen roofing membranes**

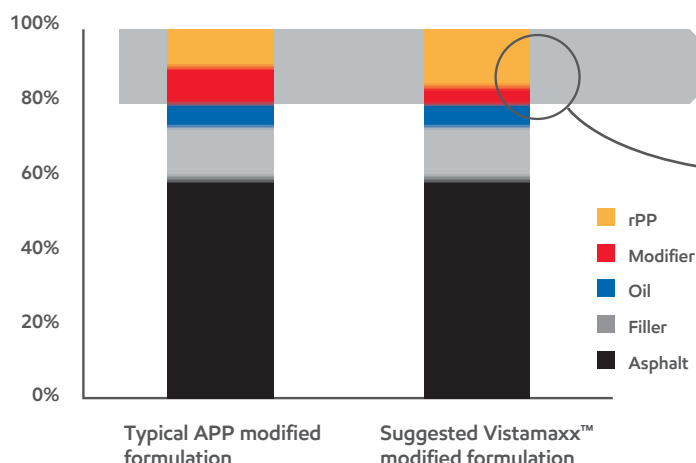
Vistamaxx™ performance polymers can be used as a modifier for bitumen compounds to optimize cost and to enhance performance of the final membrane. They can be advantaged alternatives to conventional modifiers like atactic polypropylene (APP) or styrene-butadiene (SBS) resins. Adding Vistamaxx to your 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 or recycled polymer loading
- Viscosity modification for easier compounding



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

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

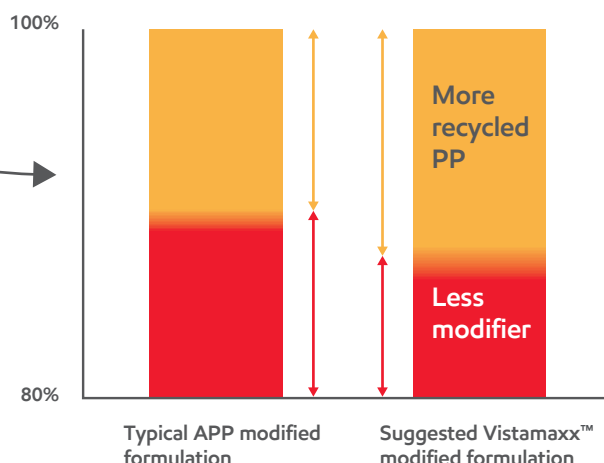
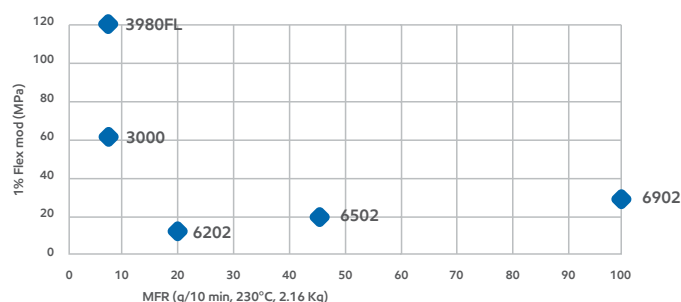


Table 1: Illustration how Vistamaxx grade portfolio can tailor membrane properties

	Vistamaxx™ 3000	Vistamaxx™ 3980FL	Vistamaxx™ 6202	Vistamaxx™ 6502	Vistamaxx™ 6902
Pen hardness	=	+	-	-	-
Foot step	=	+	-	-	-
Flexibility	=	-	++	+	++
Ring and ball	=	=	=	-	=
Viscosity reduction	=	=	+	++	+++

Directional difference between Vistamaxx grades compared to Vistamaxx 3000

Figure 3: Illustration of Vistamaxx grade portfolio for modified bitumen roofing membranes



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

## Tailoring TPO membrane solutions for better flexibility and strength

Vistamaxx can be used as advantaged polymer solution for TPO roofing membranes.

- Adding Vistamaxx to the formulation enhances the flexibility of your membranes, making them easier to install.
- Vistamaxx can also be used to tailor the tensile strength and elongation at break for more durable membranes.

## Durable EPDM rubber roofing membranes

Based on years of experience, ExxonMobil has developed Vistalon™ 9301 and 3702 EPDM rubber roofing grades balancing properties to ensure trouble-free mixing, extrusion and calendaring. Using Vistalon EPDM high performance rubber grades in your roofing applications can offer:

- Efficient mixing and filler acceptance
- Easy processing and good balance between tack and strength in uncured roofing sheet
- Excellent weathering resistance

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