



Vistamaxx™ performance polymers

A New Generation of Waterproof TPO Roofing Membrane Solutions



Excellent flexibility



Excellent aging resistance performance



Easy and fast installation



Good filler dispersion

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

Waterproof membranes, of which there are two major categories – underground and roofing, are widely used in modern architecture, as they play an important role in protecting buildings.

While waterproof roofing membranes were mainly made using bitumen in the past, today the trend is towards using polymers, including PVC, thermoplastic polyolefin (TPO) and EPDM. Among these polymer-based membranes, TPO-based roofing solutions represent fast growth in recent years.

Compared to other potential competitive polymers, TPO roofing solutions offer unique advantages including more environmentally friendly solutions compared with hard-to-recycle PVC or EPDM solutions, excellent flexibility, recyclability*, and ease of installation. In the Chinese market, Vistamaxx™ performance polymers are playing an important role in helping manufacturers create a new generation of waterproof TPO roofing membrane solutions.

Vistamaxx™ performance polymer-based TPO Roofing

Offering a large amorphous area, Vistamaxx performance polymers provide the elongation and flexible properties required for highly effective roofing solutions. It also helps filler dispersion in TPO roofing extrusion sheets. Considering the flame retardant and lower cost requirements of the construction industry, Vistamaxx is helping TPO roofing producers to more easily achieve uniform extrusion sheet with better filler dispersion.

Adding Vistamaxx to your waterproof TPO roofing membrane formulation delivers:

Benefits for roofing suppliers:

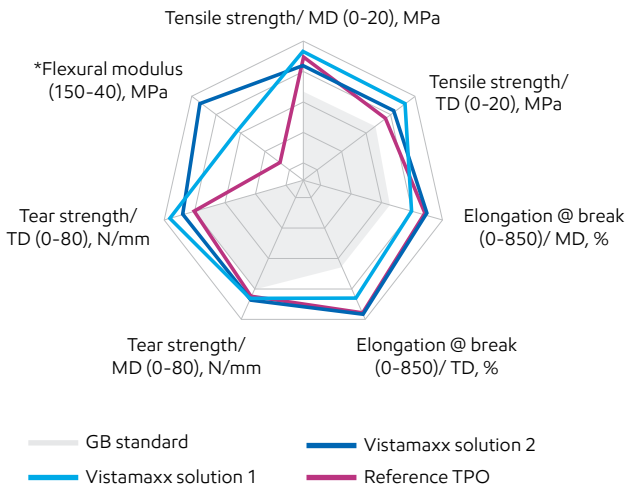
- Easy tailoring of tensile strength and elongation at break to meet national standard
- High filler loadings and good filler dispersion for better sheet consistency
- Lower cost potential with a high degree of formulation design flexibility

Benefits for construction contractors:

- Broader welding window, while improving seam force and peel strength for stabilized welding speed
- Increased flexibility for easy and fast installation and excellent welding strength for durability

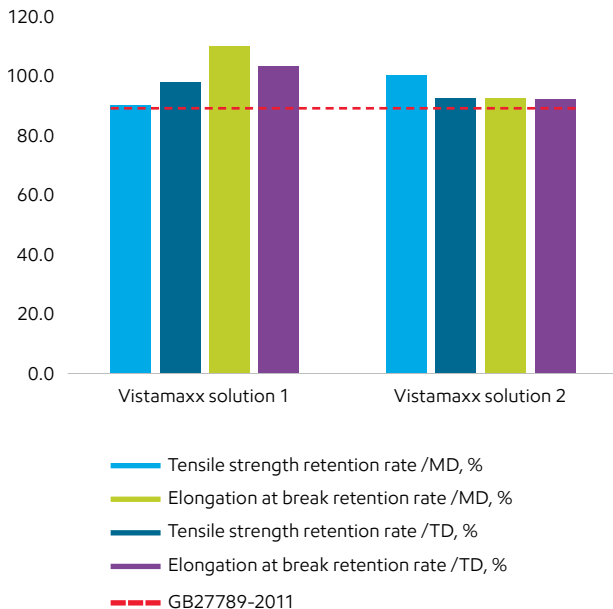
Vistamaxx performance polymers are being widely used by domestic and overseas manufacturers, with waterproof TPO roofing membrane solutions being successfully installed in many landmark buildings.

Mechanical properties of Vistamaxx™ performance polymers-based roofing solutions

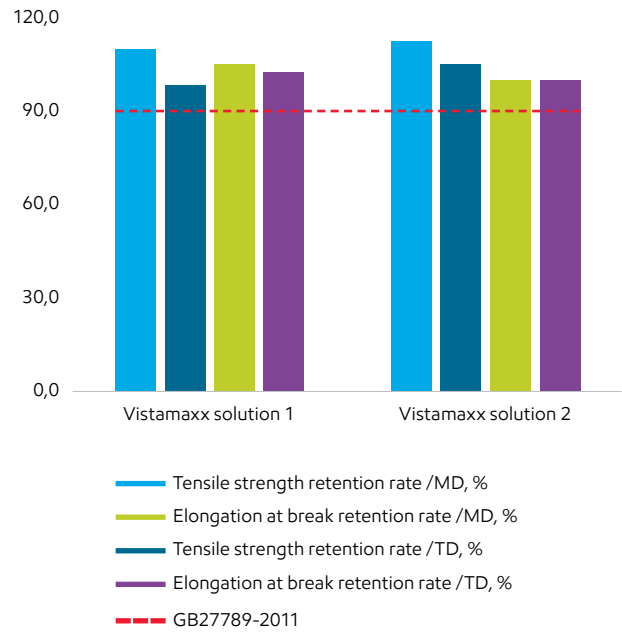


Vistamaxx performance polymers-based solutions can meet the national TPO roofing product standard (GB27789-2011), while delivering better physical property performance than a market reference TPO solution.

Weather resistance performance Retention rate after 8000h weathering aging, %



Heat aging resistance performance Retention rate after heat aging @ 115°C*672h, %



Vistamaxx performance polymers-based solutions meet both weather and heat aging resistance requirements of the national standard (GB27789-2011) which is very important for TPO roofing service life.



*All data were tested by the 3rd party based on GB27789-2011, excluding flexural modulus (based on ExxonMobil method).

What's new: **ExxonMobil Signature Polymers**

All our polymers are now positioned under a single portfolio brand: Signature Polymers. The aim is to simplify our product architecture and naming to improve portfolio navigation for you. We would like to stress that our commitment to high quality products remains the same, it is names that change. Grade slate of Vistamaxx™ performance polymers will keep unchanged.

Want to see what's changed in our portfolio? Go to exxonmobilchemical.com/sptransform

ExxonMobil
Signature Polymers

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 their sustainability and business goals.



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