



Asia Pacific, Europe, Middle East and Africa portfolio

## Solutions to meet your BOPP sealing, barrier and mechanical performance needs

Energy lives here™

As a reliable global supplier to the flexible packaging industry, we offer a broad portfolio of resins that meet the sealing, barrier and mechanical performance needs of BOPP films.

BOPP continues to meet the challenges of food packaging trends, resulting in the 8Mt BOPP market growing by nearly 5% AAGR. Key drivers include:

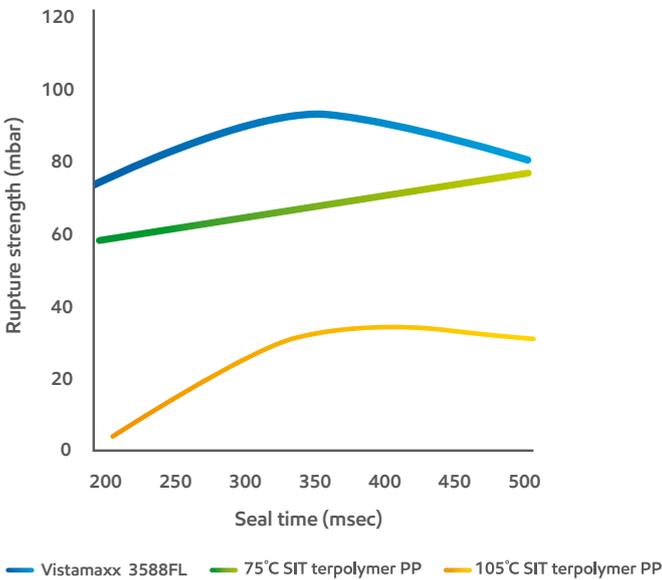
- **On-the-go convenience**  
As small and single-serve portions gain popularity, the demand for faster packaging operations also rises.
- **Quick and easy meals**  
Due to the perishability of ready-made meals, seal hermeticity is critical to keeping these products fresh and safe for consumption.
- **Shelf appeal**  
Packaging designs are becoming increasingly sophisticated, resulting in more challenging sealing requirements.
- **Global food market**  
Leak-free and airtight packaging is critical to extending product shelf life.



## Better packaging integrity

Vistamaxx™ 3588FL performance polymer provides low seal-initiation temperature (SIT < 90°C) and a broad hot tack window. Featuring characteristics and capabilities with improved sealing potential, Vistamaxx 3588FL also offers improved seal hermeticity. Vistamaxx 3588FL polymer is capable of balancing processability in filmmaking — resulting in improved product quality and the potential for overall lower costs versus comparable resins.

### Seal performance



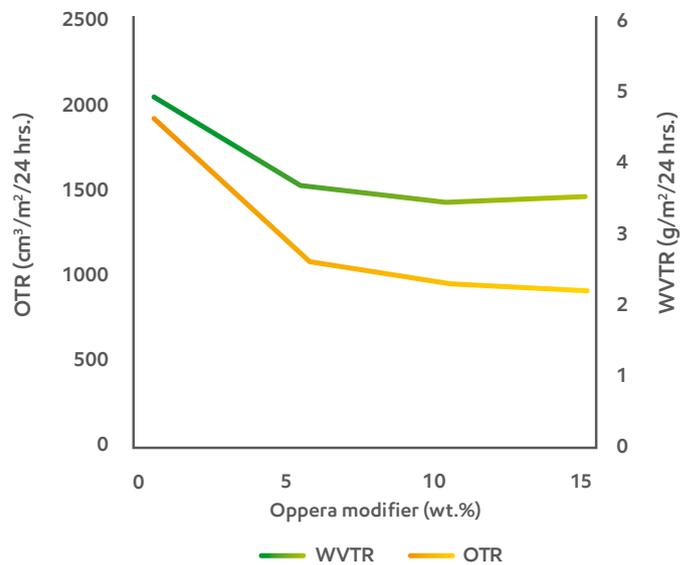
Tested at 110°C seal temperature in laminated structure:  
20µm BOPP / adlam / 25µm BOPP sealant



### Improved film properties

Opera™ PR 100 improves barrier performance (WVTR and OTR) and mechanical properties (stiffness and strength), while enhancing optical properties (decreased haze and improved clarity) — resulting in not only improved film performance, but also an opportunity to downgauge to lower film thicknesses. Opera PR 100 can also enhance the shrink performance of box overwrap films, such as in tobacco film applications.

### Barrier properties



25 micron films.  
Test methods:  
WVTR based on ExxonMobil method. OTR based on ExxonMobil method.

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