



Vistamaxx™ Oppera™ ExxonMobil™ PP

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

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. Key drivers include:

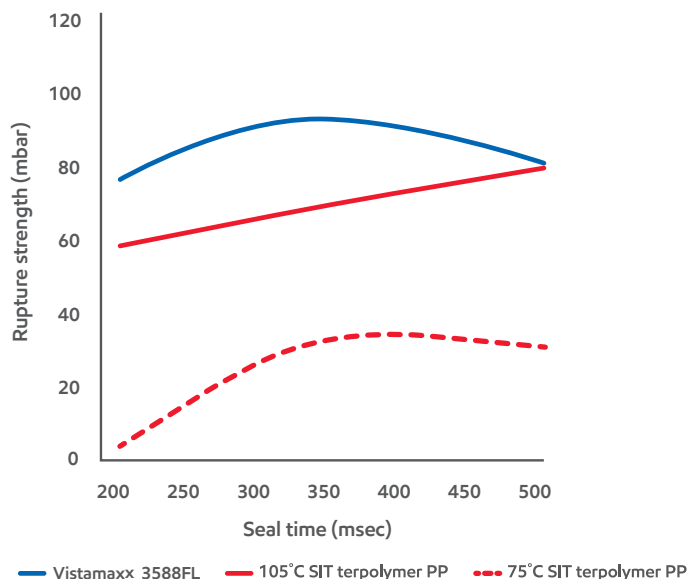
- **On-the-go convenience**
As small and single-serve portions gain popularity, the demand for faster packaging operations also rises.
- **Quick and easy meals**
Due to the perishability of ready-made meals, seal hermeticity is critical to keeping these products fresh and safe for consumption.
- **Shelf 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 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 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



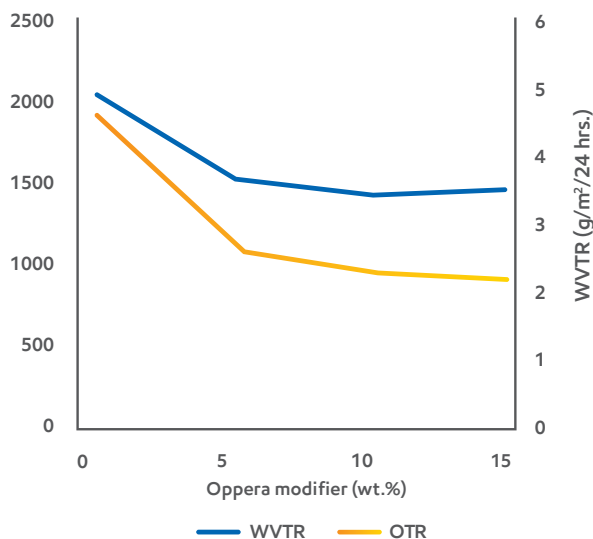
Improved film properties

Oppera™ 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. Oppera PR 100 can also enhance the shrink performance of box overwrap films, such as in tobacco film applications.

Improved barrier performance

ExxonMobil™ PP4052E1 homopolymer resin — which is compatible with Oppera's barrier and processability features — offers higher crystallinity properties that yield improved barrier performance, including increased toughness, enhanced stiffness and superior moisture barrier.

Barrier properties



25 micron films.

Test methods: OTR (23°C, 0% relative humidity) based upon ASTM D3985
WVTR (38°C, 90% relative humidity) based upon ASTM F1249
Mechanical properties based upon ASTM D882
Light transmission based upon ASTM D1003.

All data in this document have been tested by or on behalf of ExxonMobil

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 business goals.



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

All our polymers are now positioned under a single portfolio brand: ExxonMobil 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](https://www.exxonmobilchemical.com/en/brands/signature-polymers/exceed_high_performance_polymers)

Some of our existing Exceed, Achieve, Paxon and premium PP/HD grades have moved to Exceed brand; most existing Enable grades have moved to Exceed Flow[+]; most of our existing Exceed XP grades have moved to Exceed Tough[+]; most of our existing Exceed S grades have moved to Exceed Stiff[+]. More details here https://www.exxonmobilchemical.com/en/brands/signature-polymers/exceed_high_performance_polymers or contact your ExxonMobil representative to know more.