ExxonMobil
Signature Polymers

Factsheet

Vistamaxx™ performance polymers

Creating polyolefin-based resilient flooring solutions. Together.

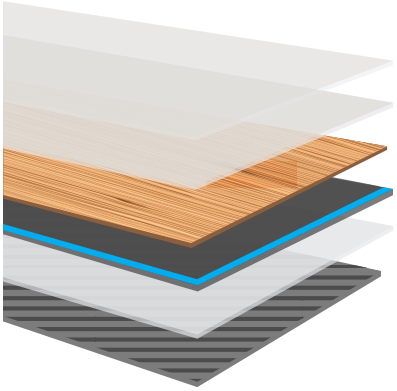
In response to increased market demands for PVC alternatives, ExxonMobil has developed polyolefin-based solutions for resilient flooring, such as tiles and planks, also known as Luxury Polymer Tiles (LPT).

Leveraging its product portfolio, formulation expertise and collaborative development approach, customized solutions for both flexible and rigid resilient flooring types are now possible. Developed in collaboration with value chain partners, ExxonMobil solutions, which can be customized to meet target requirements, are based on compounded polyolefin blends of Vistamaxx™ performance polmyers, ExxonMobil™ polypropylene, Exceed™ high performance PP, and fillers.

- PVC-alternative product
- Design for recyclability*
- Cost-competitive possibilities
- Polyolefin expertise to support customized solution development
- High levels of filler loading
- Potential to innovate and grow

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.

LPT structure example



- Abrasion coating
- Wear layer
- Print layer
- Core layer with Vistamaxx performance polymers
- Balance film
- Shock-absorption/underlayment (optional)

*Designed with features intended to support recyclability. Actual recyclability depends on factors such as local collection, sortation, and recycling infrastructure, as well as the top layer technology used in the manufacturing process and the condition of the flooring after processing or use. However, access to facilities that accept and process polyolefin-based flooring is limited and not widely available.

Designing for recyclability*

Scrap generated during production and installation, as well as discarded polyolefin-based LPT flooring material, can be returned as an input to the production process, helping to utilize the existing materials and conserve resources. At end of use, removed, properly sorted and clean polyolefin-based LPT planks can potentially be used as an input for new production.

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Durability

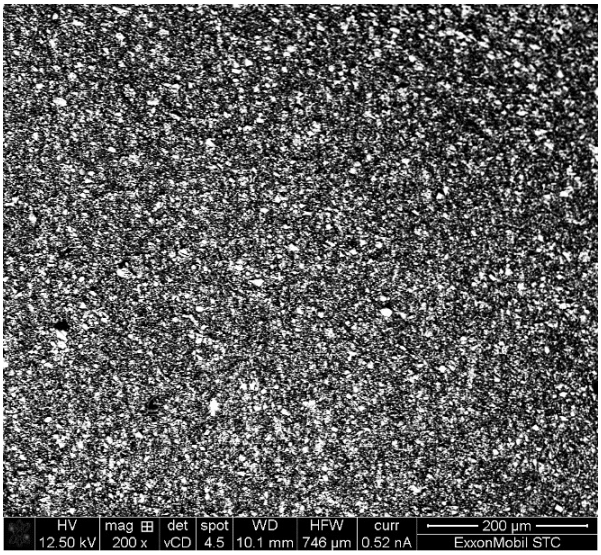
Vistamaxx performance polymers deliver high impact strength polyolefin-based LPT solutions with excellent mechanical properties, durability, combined with tailored flexibility even at high filler loading.

Good lamination strength

Vistamaxx performance polymers broaden the processing window for laminating decoration film, improving the processing effectiveness and peel strength to the final product.

Filler dispersion

Vistamaxx™ performance polymers enable a high filler loading and excellent dispersion capability, resulting in good mechanical strength and high dimensional stability, while providing opportunities to optimize costs.



Uniform filler dispersion with 75% filler loading by SEM.

Vistamaxx-based LPT solutions

Grade	Melt Flow Rate 230°C/2.16 kg ExxonMobil method (g/10 min)	Density ExxonMobil method (g/cm³)	Durometer hardness ExxonMobil method (Shore)
6202	20.0	0.862	64A
6502	45.0	0.865	71A
6902	100.0	0.869	76A
8880	--	0.879	53C

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 and business goals.