



Vistamaxx[™] Exceed[™]

Imagine the possibilities

Vistamaxx[™] performance polymers provide new possibilities to improve and extend the properties of polypropylene (PP) to meet specific application requirements. Easy to disperse and highly compatible, Vistamaxx polymers are particularly effective in modifying PP to enhance flexibility, soft touch, impact strength and adhesion, while maintaining clarity and reducing stress whitening.



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.

The versatility exhibited by Vistamaxx performance polymers enable customers around the world to develop innovative PP blends and compounds that can be used to successfully add value to a range of applications, including:

- food containers
- beverage cups and containers
- storage totes and boxes
- luggage
- toys and infant care products

Vistamaxx performance polymers can provide the inspiration for product enhancements or genuine "game changing" innovation. The potential of Vistamaxx polymers, combined with ExxonMobil Chemical's application knowledge and processing expertise, can make a real difference to your applications.



Imagine the possibilities with Vistamaxx[™] performance polymers

Adding Vistamaxx performance polymers to your PP formulation can lead to stronger, more durable and appealing products. Dry-blending Vistamaxx polymers with PP formulations allows enhancements to product performance using your existing manufacturing equipment.



Blend Vistamaxx performance polymers with ExxonMobil™ PP random copolymer polypropylene (RCP), homopolymer (hPP) or impact copolymer (ICP) resins to enhance properties of flexibility, clarity and impact strength.

Vistamaxx performance polymers improve flexibility and clarity







Test method: based on ASTM D1003

Vistamaxx[™] performance polymers improve impact strength

Impact strength - 10% Vistamaxx polymers in hPP



Impact strength - 10% Vistamaxx polymers in RCP



Test method: based on ASTM D256

Vistamaxx performance polymers effectively reduce stress whitening



Stress whitening reduction by Vistamaxx polymers



Stress whitening reduction by Vistamaxx polymers and LLDPE

Test method: ExxonMobil test methods

Individual material properties

	Vistamaxx™	Vistamaxx™	Exceed™	ExxonMobil [™] 6101XR	ExxonMobil™ PP7033E3
Properties	3000	6202	PP3155E5	LLDPE	ICP
MFR ⁽²⁾ (230°C/2.16 kg) g/10 min	8	20	36	-	8
MI ⁽²⁾ (190°C/2.16 kg) g/10 min	-	-	-	20	-
Density, D ⁽³⁾ g/cm ³	0.873	0.873	0.9	0.924	0.9
Hardness, 15 sec ⁽⁴⁾ Shore A/D	33D	66A	-	-	-
Flexural modulus 1% Secant ⁽⁵⁾ MPa (psi)	59.3 (8610)	12.3 (1790)	1386.0 (201000)	-	1140 (16500)



Food container lids

Improved performance and broad food compliance

Vistamaxx[™] performance polymers at 50-70% in hPP deliver:

- transparency for excellent appearance
- no odor issues for market acceptance
- improved toughness for better durability
- increased flexibility for easier opening/closing
- US FDA, EU, JHOSPA and China approved for food contact applications.



Luggage

Reduced stress whitening and improved durability Vistamaxx polymers and LLDPE used at 5-15% respectively in ICP deliver:

- reduced stress whitening due to synergy effect of Vistamaxx polymers and LLDPE
- improved impact performance
- reduced scrap while manufacturing
- tailorable solution on final product



Disposable cups

Better flexibility and reduced breakage

Vistamaxx polymers used at 3-10% in hPP deliver:

- improved flexibility reduces breakage in production and transportation
- better masterbatch dispersion for printed cups
- downgauging between 0.1 0.2 g/cup (approx. 4% weight reduction)
- good clarity for improved product appearance
- better processing than other standard impact modifiers



Rigid clear totes

Impact, transparency at a lower cost

Vistamaxx polymers at 3-10% in RCP deliver:

- improved impact performance for significantly reduced breakage
- transparency equivalent to RCP for excellent overall appearance
- lower cost impact modification than with SEBS

Stationery sheets

Reduced stress whitening and improved performance

Vistamaxx polymers used at 5-10% in hPP deliver:

- reduced stress whitening
- improved impact performance
- maintained clarity



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. The composition of the products are unchanged, it is only the names that updated. We will be making these modifications over the next few months, through mid 2025, so you will see both old and new grade names highlighted during that time. Grade slate of Vistamaxx[™] performance polymers will keep unchanged. Here's a quick overview of brands and grade names that have changed in this document:

Legacy	, commerci	ial name
Leyac	connerc	

New commercial name Exceed[™] PP3155E5

ExxonMobil[™] PP31555

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



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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