

Vistamaxx™ ExxonMobil™ PP Achieve™ Advanced PP
Exceed™ XP Exceed™ Enable™ Escorez™



Innovate new levels of comfort, fit and barrier performance with our hygiene solutions

Not all hygiene solutions are created equal. ExxonMobil's comprehensive range of hygiene products allows you to innovate new levels of softness, strength, fit and barrier performance. Our hygiene portfolio includes Vistamaxx performance polymers, ExxonMobil PP, Achieve Advanced PP, Exceed XP, Exceed and Enable performance PE polymers and Escorez tackifiers.

■ Nonwoven fabrics

In spunbond or meltblown nonwoven production, Vistamaxx performance polymers, Achieve Advanced PP and ExxonMobil PP offer ease of processing, softness, loft capabilities, strength, and improved barrier performance.

Typical values

Availability

| Grade | Conversion process | MFR* | Attributes | Americas | Asia | Europe | Middle East & Africa |
|---------------------------|-----------------------|--------|---|----------|------|--------|----------------------|
| Vistamaxx 7020BF | Spunbond | 20 | Enables ability to tailor softness, drapability and extensibility of fabric when used in a blend with PP. Good color stability. | ● | ● | ● | ● |
| Vistamaxx 7050BF | Spunbond Meltblown | 45 | Enables ability to tailor elasticity, softness and drapability of fabrics when used in a blend with PP. Good color stability. | ● | ● | ● | ● |
| ExxonMobil PP3155E5 | Spunbond | 36 | Excellent spinnability for consistent, high-quality fabrics at maximum throughputs. | ● | ● | ●*** | ●*** |
| Achieve Advanced PP3684 | Spunbond | 13.5 | Enable high-loft, ultra-soft nonwovens through bi-component (BiCo) spunbond process. | ● | ● | ● | ● |
| Achieve Advanced PP3655E1 | Spunbond | 58 | Outstanding uniformity for fine denier. Tunable MD & CD tensile strength and suitable for high speed spinning. | | ● | | |
| Achieve Advanced PP3854 | Spunbond | 24 | Outstanding uniformity for high-strength and fine denier. | ● | | | |
| Vistamaxx 8880 | Meltblown | 1200** | Improved barrier properties and tunable softness. | ● | ● | ● | ● |
| Achieve Advanced PP6035G1 | Meltblown | 500 | Enhanced strength with broad processing window. | ● | | | |
| Achieve Advanced PP6945G1 | Meltblown | 925 | Excellent balance between softness, barrier and strength, wide processing window. | ● | | | |
| Achieve Advanced PP6936G2 | Meltblown | 1550 | Superior barrier and softness. | ● | | | |

* MFR 230°C/2.16kg based on ExxonMobil method g/10min.

** Viscosity at 190°C (374°F) based on ExxonMobil method mPa·s.

*** Please check with your local sales contact for grade availability.

■ Backsheet film

Exceed[™] XP, Exceed[™] and Enable[™] performance PE polymers based-solutions offer thinner breathable and non-breathable backsheet films while maintaining excellent mechanical properties for high-quality products. Value creation is possible through improved extrusion line speeds, higher throughput and downgauging.

Typical values

| Grade | Melt index* | Density** | Blown film | Cast film | Attributes |
|----------------|-------------|-----------|------------|-----------|--|
| Exceed XP 8318 | 1.0 | 0.918 | ● | ● | Superior toughness and sealing properties. High film integrity. Easy processing on blown film lines. Downgauge opportunity. |
| Exceed XP 8358 | 0.5 | 0.918 | ● | | High flex-crack resistance and increased output. Robust operations on blown film lines. |
| Exceed 1018 | 1.0 | 0.918 | ● | | Toughness and sealing properties. High film integrity. Downgauge opportunity. |
| Exceed 1327*** | 1.3 | 0.927 | ● | | Toughness, sealing and optical properties. Stiffness and breathability. Robust operations on blown film lines. Downgauge opportunity. |
| Exceed 2018 | 2.0 | 0.918 | ● | | Extrudability, tensile, impact strength and puncture. |
| Exceed 3518 | 3.5 | 0.918 | | ● | Toughness properties. Robust operations on cast film lines. |
| Exceed 3527 | 3.5 | 0.927 | | ● | Toughness and sealing properties. Stiffness and breathability. Robust operations on cast film lines. |
| Exceed 4518 | 4.5 | 0.918 | | ● | Toughness and sealing properties. Easy processing on high-speed cast film lines. |
| Exceed 4536 | 4.5 | 0.936 | | ● | Stiffness and toughness balance. Breathability. Easy processing on high-speed cast film lines. |
| Enable 2005 | 0.5 | 0.920 | ● | | Easy processing on blown film lines with enhanced yield strength. Bubble stability. High film integrity. Downgauge opportunity. |
| Enable 2010 | 1.0 | 0.920 | ● | ● | Easy processing on film lines with enhanced yield strength. Neck-in improvement in cast lines. High film integrity. |
| Enable 4009 | 0.9 | 0.940 | ● | ● | Easy processing on blown film lines: bubble stability and extrudability. Stiffness and toughness balance. Downgauge opportunity. |

* Melt index 190°C/2.16kg based on ExxonMobil method g/10min.

** Density based on ExxonMobil method g/cm³.

*** Exceed 1327 is not available in the Americas.

■ Elastic laminates using elastic film

Vistamaxx performance polymer allows manufacturers to tailor the level of elasticity for improved fit, comfort and discretion, while maintaining low odor.

Typical values

| Grade | Conversion process | MFR* | Attributes |
|--------------------|------------------------------|------|---|
| Vistamaxx 6102FL** | Film | 3.0 | Provides excellent elasticity in films. |
| Vistamaxx 6202FL** | Film Extrusion lamination | 20 | Provides excellent elasticity in films and enables coating or lamination of elastic layers to nonwoven substrates. Good compatibility with polyolefin nonwoven facing layers in laminates. |
| Vistamaxx 7810** | Film | 4.8 | Offers softer stretch without sacrificing elasticity in films. |

* MFR 230°C/2.16kg based on ExxonMobil method g/10min.

**FL grades pass ExxonMobil's test for film appearance with regard to gels, as needed for performance film applications ('A' rating).

Please check with your local sales contact for Vistamaxx 7810 availability.

■ Hygiene construction and elastic attachment adhesives

Vistamaxx performance polymers and the Escorez 5000 family of high-performance tackifiers are compatible with a wide range of polymers used in nonwoven applications. Used in adhesive formulations, they are low in odor, light in color and remain thermally stable from manufacturing to product use.

Typical values

| Grade | Viscosity (mPa·s) | Attributes |
|---------------------|-------------------|--|
| Vistamaxx 8380 | 7000* | Enables high polymer load adhesive formulations with low odor, improved mileage, thermally stable viscosity, and low application temperatures. |
| Escorez 5000 series | 200 - 4000** | Offer excellent color performance with outstanding shelf-life stability. They also offer low odor, outstanding thermal and UV stability, compatibility with a wide range of polymers and an excellent balance of adhesion and cohesion properties |

* Viscosity at 190°C (374°F) ExxonMobil method mPa·s.

** Viscosity at 160°C (320°F) based on ExxonMobil method mPa·s. Please refer to Escorez Product Data Sheet by grade for individual melt viscosity and other parameters for your adhesive formulation design.



High performing solutions for every diaper part

Elastic stretch ears

Film laminates or nonwoven fabrics using Vistamaxx[®] performance polymers

Elastic waistbands

Film laminates or nonwoven fabrics using Vistamaxx performance polymers

Hot-melt adhesives

HMA using Vistamaxx performance polymers/ Escorez[®] tackifiers throughout

Top sheets

Fabrics using ExxonMobil[®] PP, Achieve[®] Advanced PP, Vistamaxx performance polymers

Core wrap

Fabrics using ExxonMobil PP

Leg cuffs

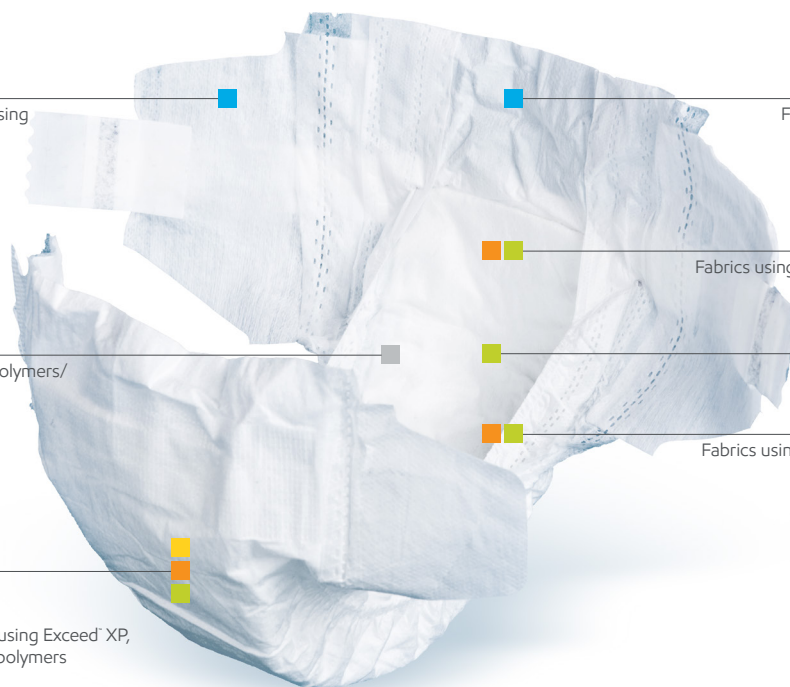
Fabrics using ExxonMobil PP, Achieve Advanced PP, Vistamaxx performance polymers

Backsheet

Fabrics using ExxonMobil PP/ Vistamaxx performance polymers

Breathable and non-breathable films using Exceed[®] XP, Exceed[®] and Enable[®] performance PE polymers

- Soft-stretch elastic
- Soft PP nonwovens
- PP nonwovens
- Backsheet films
- Hot-melt adhesives



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