









Exceed™

Exceed™ Flow

Exceed™ Flow PP3655E1 for tailoring spunbond nonwoven fabric performance and enabling innovative solutions for both hygiene and non-hygiene applications

Exceed Flow PP3655E1 creates finer fibers with high tensile strength for spunbond nonwovens used in a broad range of nonwovens applications.

 <p>Narrow MWD (Molecule Weight Distribution)</p>	 <p>Anti-gas fading additives</p>	 <p>Tailored MD and CD tensile strength</p>
 <p>Outstanding uniformity for fine denier</p>	 <p>Consistent, high- quality fabrics</p>	 <p>Suitable for high- speed spinning</p>

Exceed™ Flow PP3655E1 enhances nonwovens performance by creating finer fibers with excellent physical properties to deliver:

- Tailored softness and drapability
- Enhanced MD (machine direction) and CD (cross direction) tensile strength
- Opportunity for downgauge through fiber size reduction
- New possibilities for higher production efficiency
- Improved aesthetics
- Outstanding MFR consistency

With a melt flow rate (MFR) of 58 g/10min, Exceed Flow PP3655E1 could deliver robust processability on highspeed machinery to help optimize production efficiency and output.

Opening opportunities to finetune nonwoven fabric mechanical performance through a combination of Exceed Flow PP3655E1 and Exceed™ PP3155E5.

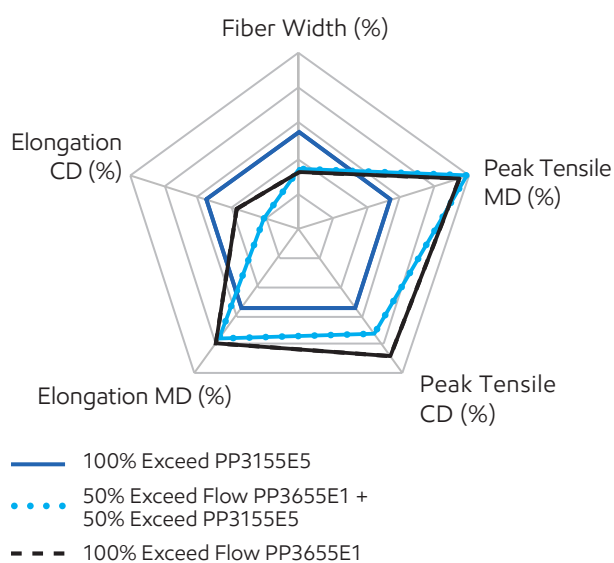
Using different percentages of Exceed Flow PP3655E1 in nonwoven fabric production trial, the tensile performance of cross direction (CD) of the fabric can be improved when compared to 100% Exceed PP3155E5. Table below shows three formulations of Exceed PP3155E5 and Exceed Flow PP3655E1 with their respective melt flow rate (MFR) that can be adjusted to meet the desired line performance and requirement.

Formulation	MFR (g/10min)
100% Exceed™ PP3155E5	36.0
50% Exceed™ Flow PP3655E1 + 50% Exceed PP3155E5	45.7
100% Exceed Flow PP3655E1	58.0

By increasing the spunbond line cabin pressure while keeping other processing conditions similar across the three formulations, formulation containing 50% Exceed Flow PP3655E1 shows higher CD tensile strength and smaller fiber width % per the spider chart below. The result demonstrates the potential benefits Exceed Flow PP3655E1 can bring to spunbond nonwovens applications. MD and CD tensile strength can be further tailored to meet specific application requirements.

Nonwoven fabric performance using 100% Exceed PP3155E5 as reference

Standard PP nonwoven — 15 gsm, S



* All data shown in the charts are in relative % values. Data Traceability: R2308-015812

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, it is the names that change. Everything else remains the same. We will be making these modifications over the next six months so you will see both old and new grade names highlighted during that time. Here's a quick overview of brands and grade names that have changed in this document:

Legacy Commercial Name	New Commercial Name
Achieve™ Advanced PP3655E1	Exceed™ Flow PP3655E1
ExxonMobil™ PP3155E5	Exceed™ PP3155E5

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

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Bring your impossible



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