ExxonMobil

Meltblown nonwoven fabrics innovation

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Vistamaxx™ performance polymers in combination with Achieve™ Advanced PP create new possibilities for meltblown nonwoven fabrics.

Raw materials:
- Achieve Advanced PP6936G2 or PP6035G1
- + up to 30% Vistamaxx 8880

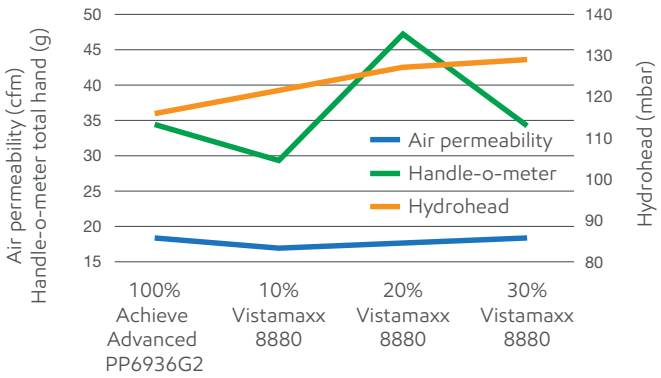
Vistamaxx 8880 can be used to tailor PP fabric properties:
- Improved barrier properties
- Higher percentage of smaller diameter fabrics
- Maintain breathability
- Potential for improved softness
- Minimal loss in CD and MD tensile and elongation

Typical applications:
- Diaper, adult incontinence, feminine care
- Medical use articles
- Filtration media

Test	Units	Test method
Basis weight	g/m²	Based on WSP130.1 (100 cm² area)
Hydrohead	mbar	Based on INDA IST 80.6 (60 mbar/min)
Air permeability	ft³/min	Based on ASTM D737 (125Pa, 38 cm²)
Handle-o-meter	grams	Based on WSP 90.3

Figure 1: Barrier properties

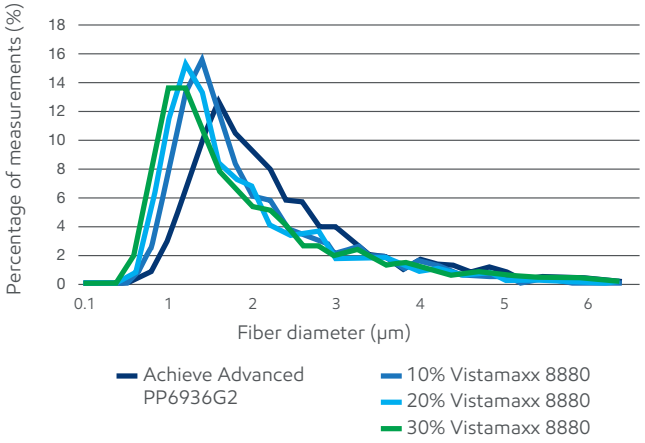
Process conditions can be tuned for your fabrics to reach an optimum balance of barrier and softness while maintaining breathability.



Process conditions optimized for barrier and softness properties

Figure 2: Fiber size impacts

As Vistamaxx 8880 concentration increases, fiber diameter distribution shifts to indicate a higher percentage of smaller fibers.



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