

Innovative 100% polyolefin-based soft-stretch elastic nonwoven fabric

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Key advantages:

- Elasticity
- Softness
- Breathability
- Easily processed on conventional equipment
- Cost-competitive

Advance Nonwoven Vietnam Co., Ltd. (ANVIET) is using Vistamaxx™ performance polymers and ExxonMobil™ PP to create innovative breathable soft-stretch elastic nonwoven fabrics. The new FLEXPUN™ fabrics are produced on ANVIET's conventional spunbond lines.

ANVIET, a leading manufacturer of nonwoven fabrics based in Vietnam, wanted to produce new nonwoven fabrics that could deliver high value to its customers by offering a balance of performance properties, like elasticity, softness and cost competitiveness. Some companies are producing nonwoven fabrics using thermoplastic polyurethane, but the associated high costs limit the number of applications in which they are an attractive proposition.

New nonwoven possibilities

Looking for a collaborative partner, ANVIET turned to ExxonMobil for its polymer and application expertise, formulation/grade advice, and technical support. ExxonMobil recommended a formulation including a high dosage of Vistamaxx performance polymers combined with ExxonMobil PP, which has become an industry-standard for nonwoven fabrics.

The result is a new elastic nonwoven fabric, FLEXPUN, which also offers softness and breathability, while being cost competitive. Produced on conventional spunbond lines, FLEXPUN is available in different weights, from 20gsm to 180gsm, for various nonwoven applications. The elasticity of the fabric can be customized to meet the needs of the application. This product is hydrophobic, but hydrophilic properties can be added.

New market possibilities

“By delivering a combination of elasticity, softness and breathability at a good price, FLEXPUN™ fabrics are creating new possibilities for nonwoven applications including masks, gloves, and medical fabrics.” said Mr. Shinichiro (Shawn) Miwa, president, Advance Nonwoven Vietnam Co., Ltd. “We are very excited about the market potential for these new fabrics.”

“We are delighted with the results of the collaboration,” said Miwa. “Another benefit of working with ExxonMobil, is they produce all the polymers needed for the formulation,” said Miwa. “This can help with the supply reliability of consistent quality polymer grades which is critical for business growth.”

ANVIET is currently targeting several nonwoven applications including:

- Ear hanging parts of nonwoven masks
- Base material for plasters/bandages
- Inside cover of beds
- Construction adhesive tapes
- Automotive noise absorption materials in automotive



New FLEXPUN nonwoven fabrics are produced on conventional spunbond lines at the ANVIET plant in Vietnam.

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