



➤ PRODUCT BULLETIN

Versaflex™ TF Adhesive Thermoplastic Elastomers (TPEs) for Textile Fabrics

As consumers are becoming more health-conscious, there's a steady increase in the demand for functional, lightweight, and comfortable fitness clothing that is also visually appealing.

Versaflex™ TF Adhesive TPE solutions, developed for adhesive films in laminations with nylon and polyester textile fabrics, enable brand owners and OEMs to create a new generation of soft, stretchable, and breathable fabrics for athletic apparel such as sportswear and underwear. These solutions can support the strength and elasticity of the fabric for superior shape recovery of up to 99% after 300% elongation over 1 minute. Compared to TPU adhesive films and traditional glue, these new TPE solutions can deliver a seamless and strong adhesion to polyester and nylon fabrics, enabling a uniform thickness and overall appearance for an athletic, close-fitting, and non-bruising finish.

Versaflex TF Adhesive TPEs offer easy processing and shaping, and can also be custom-colored and cost-efficiently laser-cut. All products passed the OEKO-TEX® 100-2 standard, do not include plasticizers, and contain lower VOCs than traditional adhesive solutions. In trials with various washing machines and modes, they show excellent peel strength and resistance to discoloration, fading, or hazing at water temperatures up to 60°C.

KEY CHARACTERISTICS

- High-wearing comfort and elastic recovery
- Strong and seamless adhesion to polyester and nylon fabrics
- Passed OEKO-TEX 100-2 testing
- Excellent washability at up to 60°C
- Non-toxic formulations with low volatile organic compounds (VOC) and without added plasticizers
- Attractive alternative to conventional TPU adhesive film and glue

MARKETS & APPLICATIONS

Versaflex TF Adhesive TPE solutions have been custom engineered for:

- Elastic strips in underwear
- Seam tapes in sports and fitness apparel



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