

## Twintex® Co-Mingled Glass and Thermoplastic Reinforcements

Twintex® reinforcements are ready-to-use thermoplastic and glass combination designed for high mechanical properties, such as excellent stiffness-to-weight ratio and impact properties. The proprietary reinforcement also provides efficient and clean (no VOCs) process conditions, high freedom of design and is recyclable.

Twintex® products are made of co-mingled glass and thermoplastic filaments. Direct, single-end roving is the base material for the whole Twintex® reinforcement product line, and can be provided with a polypropylene matrix (PP) or co-polyester resin (PET).

Consolidation is achieved by heating the roving above melting temperature of the matrix (180°C–230°C/360°F–450°F for PP) and applying a pressure before cooling step under pressure.

The Twintex® PP product range also includes fabrics, plates and long glass fiber concentrated pellets:

Applications made with Twintex® reinforcements include:

- Bumper beams
- Kayak seats
- Truck panel skins
- Micro-car floors
- Under engine protection
- Small boat hulls
- Front end assemblies
- Inside door panels
- Standard profiles and profiles with external coating
- Pressure vessels