

CFRT (Continuous Fiber Reinforced Thermoplastic Tape)

Category

CFRT UD TAPE is continuous fiber impregnated with resin(such as PP/PA) and laminated together to create one ply fiber reinforcement thermoplastic composites .

It is non-woven , fibers are parallel(0°). The width is 300mm/600mm/1200mm, can be accepted customized .

Advantage

- Low Cost
- Lightweight
- High strength and modulus and Excellent impact resistant
- Design Flexibility
- Resists rot, corrosion, and mildew and is not affected by cleaning related chemicals
- No VOC, environmental, completely recyclable



Application

CFRT UN Tape can produce sandwich panels (honeycomb or foam core), laminated panels for vehicle lighting applications, and also for continuous fiber reinforced thermoplastic winding pipe.

- Automotive interior&exterior
- Thermoplastic winding pipe
- Sports Tools
- Construction
- Military
- Aerospace

Technical Data

Properties ¹	Test Standards	Units	Typical Value
Fiberglass Content	GB/T 2577	Wt%	60
Density	GB/T 1463	g/cm ³	1.49
Tensile Strength of tape ²	ISO527	MPa	800
Tensile Strength	ISO527	MPa	300~400
Tensile Modulus	ISO527	GPa	15
Flexural Strength	ISO178	MPa	250~300
non-notched Impact Strength	ISO179 Charpy	kJ/m ²	120~180

Note¹: Sample was made by multi-layer 0° 0.3mm CFRT tape molding; ²: Single layer of 0.3mm tape was tested