

CFRT-PA6 (Continuous Fiber Reinforced Thermoplastic Tape-Polyamide-6)

Category

CFRT-PA6 UD-TAPE is 60% continuous glass fiber reinforced polyamide 6 unidirectional tape, the continuous glass fiber be impregnated by polyamide 6 melt.

Advantage

- Low Cost
- Lightweight
- High strength and modulus and Excellent impact resistant
- Design Flexibility
- Resists high temperature
- No VOC, environmental, completely recyclable

Application

Automotive industry and transportation industry. such as Accelerator, Brake Pedal, Seat Frame\Seat Base etc.

Technical Data

Test items	Test Standards	Condition	Units	Typical Value
0° unidirectional Laminate Mechanical Properties				
Density	ISO1183	23°C	g/cm ³	1.72
Fiberglass Content	ISO3451	23°C	%wt	60
Tape Thickness	/	23°C	mm	0.30
Tensile Strength	ISO527-3/Tape	Dry,10mm/min	MPa	830
Flexural Strength	ISO14125	Dry,5mm/min	MPa	1050
Flexural Modulus	ISO14125	Dry,5mm/min	GPa	40
Inter-laminar Shear Strength	ISO14130	1mm/min	MPa	45
Compressive Strength	ISO14126	1mm/min	MPa	340

0° unidirectional Laminate Mechanical Properties				
Flexural Strength	ISO14125	Dry,5mm/min	MPa	560
Flexural Modulus	ISO14125	Dry,5mm/min	GPa	26

**Recommended working temperature:250-280 °C*

Note¹: Colored product performance may be different from the above values.

Note²: Typical values are the average laboratory data, when used only for reference , not as a products standard.

Note²: Above conditions only for reference, according to different equipment, different molds and product requirements, process must be appropriately adjusted.