

T-UD Series CPA6

A continuous carbon fiber reinforced PA6 UD tape with 50%~60% carbon-fiber content.
The width is 580mm.

Advantages

- Lightweight
- High strength and modulus
- Excellent impact resistance
- No VOC, environmental, completely recyclable



Application

CPA6 carbon fiber UD tape is a continuous carbon fiber reinforced PA6 UD tape with 50%~60% carbon-fiber content. The unidirectional tape made of continuous fiber reinforced thermoplastic can be used in components of the automotive and transportation industry, such as accelerator, brake pedal, seat frame, etc..

Technical Data

Test Items	Test Standards	Test Conditions	Units	Typical Value
Density	ISO1183	23°C	g/cm ³	1.38
Fiberglass Content	ISO3451	23°C	%wt	50
Tape Thickness	/	23°C	mm	0.30
Mechanical Properties				
UD Tensile Strength	ISO527-3	10mm/min	MPa	1200
0/90 Tensile Strength	ISO527-4	2 mm/min	MPa	540
UD Flexural Strength	ISO14125	5mm/min	MPa	1200
UD Flexural Modulus	ISO14125	5mm/min	MPa	85000
0/90 Flexural Strength	ISO14125	5mm/min	MPa	720
0/90 Flexural Modulus	ISO14125	5mm/min	MPa	53200
Shearing Strength	ISO14130			
Shearing Modulus	ISO14130			

Note¹: Typical values are the average laboratory data, only for reference.

Note²: According to different equipment, molds and personal requirements, process must be appropriately adjusted.