

T-UD Series GPA6 Technical Data

Description

T-UD series GPA6 is 60% continuous glass fiber reinforced unidirectional tape. The continuous glass fiber is infused in polyamide 6 prepreps.

Application

The GPA6 UD tape in TOPOLO is made of CFRT (continuous fiber reinforced thermoplastic) composite, a smart material introduced to the production of automobiles and car components like accelerators, brake pedals, seat frames, and seat bases. With the strong properties from CFRT, our UD tapes can be widely used in the automotive and transportation industry.

Technical Data

Properties ¹	Test Standards	Test Conditions	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	0.3
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
0/90 Organo Sheet 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.

