

## PYROFIL™ Chopped Fiber

### 1. Feature

**PYROFIL™** Chopped Fiber is made from High Performance Tow, **PYROFIL™** and it mainly used for a compound with a variety of thermo plastics. Our unique sizing achieves a balance between dispersibility into matrix resins and convergence performance during extruding.

It provides many advantages as below.

Increase strength and modulus

Add heat and electronic conductivity

Low thermal expansion/ dimension stability

Fatigue endurance, creep resistance

Suitability for continuous sliding, abrasion resistance

### 2. Standard Specification

ITEM	Carbon Fiber	Sizing Type	Sizing Ratio	Fiber Length	Preferable Matrix Resin
TR06U	Standard Small-Tow	Urethane	2.5%	6mm	ABS,PC,PBT, etc
TR06NE		Polyamide	3.0%	6mm	PA, PPS, PEI, PES, etc
TR06Q		Epoxy	2.5%	6mm	POM, PC, PPE, etc
TR066A		Epoxy	3.0%	6mm	PPS, PC, PET, ABS, Thermoset
TR03CM		Water	12.0%	3mm	Inorganic material, Papar, Phenol
TR03M		Water Dispersible Polyamide	1.5%	3mm	Inorganic material, Papar, Phenol
TR06UL	Standard Large-Tow	Urethane	2.5%	6mm	ABS,PC,PBT, etc
TR06NL		Polyamide	3.0%	6mm	PA, PPS, PEI, PES, etc
TR06YL		Modified Epoxy	4.2%	6mm	PPS, etc.
TR06QL		Modified Epoxy	2.5%	6mm	POM, PC, PPE, etc
MR03NE	Intermediate Modulus-Tow	Polyamide	3.0%	3mm	PA, PPS, PEI, PES, etc

Typical properties of carbon fibers used in chop fibers are shown below.

CF Type	characteristics	Reference
Standard Grade (TR, TRH series)	Tensile Strength	> 3.7 GPa
	Tensile Modulus	>220 GPa
Standard Grade (TRW series)	Tensile Strength	> 3.3 GPa
	Tensile Modulus	>220 GPa
Intermediate Modulus Grade	Tensile Strength	> 4.4 GPa
	Tensile Modulus	>265 GPa

- Standard Cut length 6mm  
(3mm cut is also available)
- Standard Packaging 20kg

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