NPS Carbon Fiber Products

We offer a variety of carbon fiber products - chopped, milled, paper, and felt – which are processed from completely graphitized PAN-based carbon fiber.

Chopped carbon fiber

Features

- Highest quality PAN-based raw materials
- Variety of sizing agents, customized for each base polymer
- Flexibility of sizing content, from 1.5% to 5.0%
- Standard length of 6mm, can be customized



Choice of sizing agent

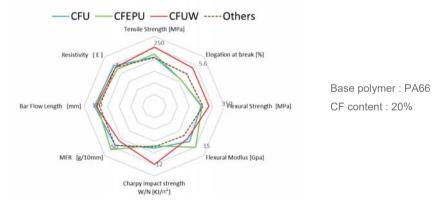
•	CFU	(Urethane base)	for PA, and others
÷	CFOF	(Olefin base)	for PP

CFEPU (Epoxy & urethane base) for POM, PBT, PC, PPO
CFUW (Special urethane base) for PA, PPA, and others
CFAU (Acrylic & urethane base) for PC, PA

CFEX1 (Special epoxy base) for PPS

CFV3 (High heat resistance) for PEEK, PEI

Comparative properties with different sizing agents



Milled Carbon Fiber

Features

- Highest quality PAN-based raw materials
- Variety of milled length, from 40µm to 150µm





NPS Carbon Fiber Products

Carbon fiber paper & felt

Features

- Highest quality PAN-based raw materials
- Random orientation
- Available with thermoplastic fibers
- Competitively priced



Type of CF Paper & Felt

- CF paper (30g~400g/m²)
- CF felt (500g~1000g/m²)
- Composite CF paper or CF felt with thermoplastic fibers (PP, PA, and PPS)







Grade	Material	Weight (g/m²)	Thickness (mm)	Width and Length (m)
CFF-500	CF80% + Rayon20%	500	5	1mW x 50mL/roll
CFF-1000	CF80% + Rayon20%	1000	10	1mW x 50mL/roll
CFF-2000	CF80% + Rayon20%	2000	20	1mW x 50mL/roll

Applications

- CFRTP (Carbon Fiber Reinforced Thermoplastics)
- Outer appearance layer of CFRP bicycle
- Structural material for bath unit & toilet
- Insulating material for vacuum furnaces





Reference data of carbon fiber

Tensile Strength	Tensile Modulus	Fiber Diameter	Density	
(Mpa)	(Gpa)	(µm)	(g/m³)	
3,400 - 4,900	230 - 240	6.9 - 7.5	1.76	



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