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



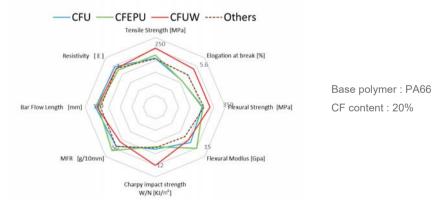
Choice of sizing agent

٠	CFU	(Urethane bas	se) for PA, and others
	CFOF	(Olefin base)	for PP

CFEPU (Epoxy & urethane base)
CFUW (Special urethane base)
CFAU (Acrylic & urethane base)
CFEX1 (Special epoxy base)
for POM, PBT, PC, PPO
for PA, PPA, and others
for PC, PA
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



- 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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