

TENAX[®] CHOPPED CARBON FIBERS

Tenax[®] chopped carbon fibers have excellent process-ability, resin compatibility, and translation of mechanical and electrical properties. Different grades have been created to optimize chemical compatibility with thermoplastic or thermoset resin types. The standard chopped fiber length is 6mm and is suitable for use in all automatic feeding systems and batch blends. Some grades are available in 3mm, 12mm or 25mm chop lengths.

Water dispersible grades of Tenax[®] fiber are offered in lengths ranging from 3mm to 25mm and are designed for use in water based slurry applications.

Milled carbon fibers are un-sized, short lengths, and are suitable for use in all resins and processes. The aspect ratio of milled carbon fibers provides mechanical reinforcement, electrical conductivity and dimensional stability to polymer compounds.

Typical Filament Properties	Average Value	Units	
Tensile Strength	4,275	MPa	(620 ksi)
Tensile Modulus	225	GPa	(32.7 Msi)
Ultimate Elongation	1.9	%	
Carbon Density	1.82	g/cm ³	
Filament Diameter	7	µm	
Electrical Resistivity	1,380	µΩ-cm	
Typical Chopped Properties	Average Value	Units	
Fiber Length	3, 6, 12, 25	mm	
Moisture Content	<0.3	%	

Standard packaging options: 20 kg cartons or 500 lb Super Sacks.

Toho Tenax strand test method, based on JIS R7601

These fibers are controlled by the U.S. Export Administration Regulation and are classified as 1C990 unless otherwise noted. Diversion contrary to U.S. law is prohibited.

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Product Selection Guide

Chopped Product Nomenclature	Typical Bulk Density (g/l)	Typical Sizing Level	Applications
Tenax®-A HT C124 3mm Tenax®-A HT C124 6mm Tenax®-A HT C124 12mm Tenax®-A HT C124 25mm	350 350 300 250	3.8	Water soluble sizing for use in aqueous dispersion systems
Tenax®-A HT C451 6mm	500	1.0	Epoxy, Vinylester, Polyester, Phenolic, Fluoropolymers
Tenax®-A HT C483 6mm	475	2.7	PC, POM
Tenax®-A HT C493 6mm	525	2.7	PE, PP, ABS, SAN, PS, PA, PC, PBT, PET, PC, PPO, LCP, TPU
Tenax®-A HT C723 6mm	450	1.6	PEEK, PEI, PPS, PSU, PPSU, LCP, PPA
Tenax®-J HT C903 6mm	400	2.5	EMI / RFI shielding applications
Tenax®-A HT M100 60mu Tenax®-A HT M100 100mu	550 350	n/a	All Thermoplastics and Thermosets

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