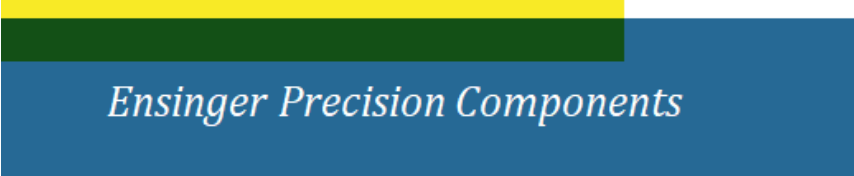


TECAPEEK[®] SM 450 & SM 450GF
Unfilled & Glass Filled DCMS™ PEEK Tubes



Ensinger Precision Component's (EPC) TECAPEEK[®] SM 450 and TECAPEEK[®] SM 450GF is manufactured from a proprietary process called the Dynamic Cast Molding System™ (DCMS™). TECAPEEK[®] SM is produced exclusively out of Victrex[®] PEEK compounds. The DCMS™ process offers a quick turnaround time when compared to other manufacturing methods. Lengths can range from 2" to 24", but typically run 6" or 6.5". Current OD capability range is between 1.50"Ø to 21.6" Ø with wall thicknesses ranging between 0.125" to 1.5" depending on the OD.

- Extremely high thermal and mechanical capabilities
- Very high continuous working temperature
- Increased stiffness and bearing properties
- Very high level of dimensional stability
- Exceptional chemical resistance

Properties	ASTM Test Method	Units	TECAPEEK [®] SM 450 GF 30% Glass Filled Typical Properties	TECAPEEK [®] SM 450 Unfilled Typical Properties
Specific Gravity	ASTM D792		1.52	1.31
Tensile Strength	ASTM D638-02	psi	15,780	13,488
Elongation	ASTM D638-02	%	2.54	31.5
Shear Strength	ASTM D732-99	psi	12632	8,992
Flexural Strength	ASTM D790-02	psi	27,093	24,366
Flexural Modulus	ASTM D790-02	psi	1,160,301	594,654
Compressive Strength	ASTM D695-02a	psi	24,801	22,335
Hardness	ASTM D2240-02a	--	88D	85D
Heat Deflection Temperature	ASTM D648-01	°F	590	347



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