

# TECAPEEK® CF30

Polyetheretherketone  
Ensinger Inc.

Message:

TECAPEEK® CF30 is a 30% carbon filled version of Ensinger's standard TECAPEEK which offers improved strength and stiffness as well as greater load bearing capabilities for those applications that require it.  
TECAPEEK™s exceptional property profile enables it to be utilized in many of the most critical areas in general industry, as well as in the automotive, marine, nuclear, oil well, electronics, medical and aerospace fields.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability		
	Good wear resistance		
	Good chemical resistance		
	Good wear resistance		
	Heat resistance, high		
	Hydrolysis resistance		
Uses	Ship application		
	Electrical/Electronic Applications		
	Industrial application		
	Aerospace applications		
	Nuclear energy applications		
	Application in Automobile Field		
	Oil/Gas Supplies		
	Medical/nursing supplies		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm <sup>3</sup>	ASTM D792
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (23°C)	13000	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	186	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.1	%	ASTM D638
Flexural Modulus (23°C)	12800	MPa	ASTM D790
Flexural Strength (23°C)	318	MPa	ASTM D790
Compressive Strength (23°C)	240	MPa	ASTM D695
Shear Strength (23°C)	97.2	MPa	ASTM D3846

Coefficient of Friction <sup>1</sup>	0.22		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	316	°C	ASTM D648
Continuous Use Temperature	260	°C	
Melting Temperature	334	°C	
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.92	W/m/K	ASTM C177
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value	Unit	
Limiting Pressure Velocity - 1200 in/min (20°C)	385000	psi · fpm	
Data based on injection molded samples.			
NOTE			

1. @ 68°F, 1200 in/min, 155 lbs Load

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#### Recommended distributors for this material

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