

TECAPEEK® TS

Polyetheretherketone
Ensinger Inc.

Message:

TECAPEEK® TS offers a property profile well suited to test socket applications. The material exhibits improved hardness along with good toughness and the necessary creep strength to support an extended successful life in the application. These properties are also reflected by the materials excellent machinability that produces low levels of burrs, even with the finest structures. TECAPEEK TS also has a high degree of dimensional stability over a wide temperature range.

General Information			
Features	Good Corrosion Resistance		
	Good Dimensional Stability		
	Good Thermal Stability		
	Good Toughness		
	High Hardness		
	High Heat Resistance		
	High Rigidity		
	Low to No Water Absorption		
	Machinable		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5700	MPa	ASTM D638
Tensile Strength (Yield)	110	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	5900	MPa	ASTM D790
Flexural Strength	175	MPa	ASTM D790
Compressive Modulus	4300	MPa	ASTM D695
Compressive Strength			ASTM D695
1% Strain	17.0	MPa	
2% Strain	34.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	230	°C	ASTM D648
Peak Melting Temperature	339	°C	ASTM D3418
Service Temperature - Long Term	260	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

