

# TECATRON™ PVX

Polyphenylene Sulfide  
Ensinger Inc.

## Message:

TECATRON™ PPS is a high performance thermoplastic that combines good mechanical properties with excellent thermal and chemical resistance properties. There is no known solvent that dissolves TECATRON™ PPS at temperatures below 392°F. Its low ionic impurities make it an excellent choice for applications where high purity is a concern. TECATRON™ GF40 is a glass reinforced material that offers extremely high strength along with excellent chemical resistance properties. TECATRON™ PVX is a bearing grade PPS that is suitable for high load applications. TECATRON™ PPS's excellent thermal and chemical resistance along with its ionic impurities make an excellent choice for applications requiring low outgassing and high purity. TECATRON™PPS is typically used in the automotive, electrical/ electronic, industrial, mechanical, appliance and semiconductor industries.

General Information			
Features	Low (to None) Ion Content		
	Good dimensional stability		
	High purity		
	High strength		
	Insulation		
	Good corrosion resistance		
	Good creep resistance		
	Good chemical resistance		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Industrial application		
	Application in Automobile Field		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm <sup>3</sup>	ASTM D792
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9510	MPa	ASTM D638
Tensile Strength (Break, 23°C)	100	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	1.5	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	282	°C	ASTM D2133
CLTE - Flow	1.7E-5	cm/cm/°C	ASTM D696
Maximum Service Temperature			
Intermittent	260	°C	
Long Term	230	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+6	ohms·cm	ASTM D257
Dielectric Constant <sup>1</sup> (23°C, 60 Hz)	3.00		ASTM D150
Dissipation Factor (23°C, 60 Hz)	1.0E-4		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			
Data obtained from extruded shapes material.			
NOTE			
1.	50% RH		

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