

TECAPEEK[™] PVX

TECAPEEK[™] PVX is an ultra high performance bearing material that incorporates the properties of a premium polymetric matrix material with optimum levels of specific wear enhancing additives. This formulation raises the continuous use temperature by approximately 40°F and increases the limiting PV while maintaining excellent chemical resistance. When used as a non-

metallic bearing, TECAPEEK[™] PVX offers a superb range of tribiological performance. It is designed to run at high loads and speeds, in hostile environments, either dry or lubricated. **TECAPEEK**[™] PV)

- Excellent high temperature performance Continuous use temperture over 450°F.
- Flammability is UL94 V-O with a low limiting O² index (-40%) and very low smoke generation
- Can be used dry against hard or soft mating surfaces
- Excellent weather resistance
- Resistant to gamma radiation
- Complies with specific provisions of ASTM D6262-98
- Available in a wide range of sizes, extruded in rod and plate for subsequent machined parts

TECAPEEK[®]PVX'S exceptional properties make it an ideal material for bearing surfaces in the most demanding applications and in the harshest conditions. Industiral, autmotive, marine, nuclear, petrolem and aerospace industry applications realize great benefits from its use.

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January 1	, 2010	- Version 3.0

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TYPICAL PROPERTY VALUES

	PROPERTIES	ASTM Test Method	Units	TECAPEEK PVX
SC	Density Specific Gravity Water Absorption, @24 hours, 73°F @Equilibrium, 73°F	D792 D792 D570	lbs/in³ % -	.0535 1.48 -
MECHANICAL	Tensile Strength @ Yield, 73°F Tensile Modulus, 1% Sec, 73°F Elongation, Vield, 73°F Flexural Strength, 73°F Flexural Modulus, Tangent, 73°F Compressive Strength, 73°F Shear Strength, Ultimate, 73°F Izod Impact, Notched, 73°F Rockwell Hardness M Scale Wear Rate Maximum PV Coefficient of Friction, @ 68°F 1200 in/min, 155 lbs Load	D638 D638 D638 D790 D790 D790 D695 D3846 D256 - - - - 5 D1894-95	psi psi % psi psi psi ft-lbs/in in/min x 10° -	17,300 2.5 30,000 1,400,000 22,000 3.25 85 1.25-1.50 25,000-30,000 .19-21
HERMA	Deflection Temperature @ 264 psi, 1/4" Maximum Continuous Use Temperature Melting Point Coefficient of Thermal Expansion Thermal Conductivity Flammability	D648 	°F °F °F Btu-in/hr-ft².°F	530 500 633 3.11 × 10°
33	Volume Resistivity, 73°F Dielectric Strength Surface Resistivity	D149 D257 D257	V/mil ohm-cm ohm/sq	1.4 x 10 ^s 10 ^s - 10 ^s
TE	trade and patent rights should be observe CAPEEK™PVX - Ensinger Industries, Inc. ATERIAL AVAILABILITY ids: Diameters: 3/16" to 3-3/4" Length: 10'	Plates: .3		ases are 19.7" x 39.5"
	Profiles, tubes, a		6262 S-PAEK 0144	4
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36 W Te	ADQUARTERS 5 Meadowlands Boulevard ashington, Pennsylvania 15301 Iephone: 800-243-3221 Sales 800-869-4029 Technical Fax: 724-746-9209 mail: sales@ensinger-ind.com	CANADA Ensinger-Plastifab 8115 Lafrenaie Street Montreal, Quebec H1P 2B1 Telephone: 514-325-9840 Fax: 514-325-5222 Web site: www.plastifab.ca e-mail: infoprod@plastifab.ca		DS126/0604
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