

PRODUCT NAME	ProTek Flat Plate
USES	Multiple applications, such as a
	non-metallic bearing surface for
	corrosion-prone areas
DESCRIPTION	Made from the same corrosion-resistant
	composite material as our ProTek
	Wear Pads, the flat plate can be installed
	in minutes.

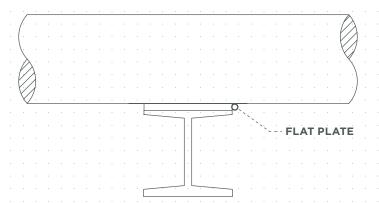
FEATURES

- » Protects structure or surface from wear caused by pipe movement or other forces
- » Low cost of installation: no welding, hot work permits or highly skilled personnel required.
- » Product helps minimize maintenance and operational costs throughout the lifetime of the piping system
- » Can be adhered to any flat surface or structure
- » Product can also be used as a shim to correct for height inconsistencies

PROPERTIES				
				APP-VEFR
MAXIMUM LOAD				54,000 lbs
TEMPERATURE LIMITS		-		-60°F to 400°F

ACCESSORIES

- » Epoxy 6 oz. cartridge (EX-100)
- » Static mixing nozzle (EX-200)
- » Epoxy applicator gun (EX-500)



PHYSICAL PROPERTIES

MECHANICAL PROPERTIES								
	Longitudin	al Direction	Transverse Direction					
Property	Method	Result	Units	Result	Units			
ULTIMATE TENSILE STRENGTH	ASTM D638	35,000	psi	10,000	psi			
ULTIMATE COMPRESSIVE STRENGTH	ASTM D695	35,000	psi	20,000	psi			
ULTIMATE FLEXURAL STRENGTH	ASTM D790	35,000	· · · psi · · ·	14,000	· · · psi· · · ·			
TENSILE MODULUS		3.0	psi x 10 ⁶	1.0	psi x 10 ⁶			
COMPRESSIVE MODULUS		2.5	psi x 10 ⁶	1.2	psi x 10 ⁶			
FLEXURAL MODULUS		2.0	psi x 10 ⁶	1.0	psi x 10 ⁶			
ULTIMATE SHEAR STRENGTH		7,000	psi	6,000	psi			
ULTIMATE BEARING STRESS		35,000	· · · psi · · ·	35,000	· · · psi · · ·			
IZOD IMPACT STRENGTH	ASTM D256	30.	ft-lbs per		ft-lbs per			
(SAMPLE THICKNESS 1/8")			inch of notch		inch of notch			
BARCOL HARDNESS	ASTM D2583-75			50				

ELECTRICAL PROPERTIES						
Property	Method	Result	Units Units			
ELECTRIC STRENGTH, SHORT TERM IN OIL, 1/8"	ASTM D1491	200	· · · · · · · vpm· · · · · ·			
ELECTRIC STRENGTH, SHORT TERM IN OIL		35	KV/inch			
DIELECTRIC CONSTANT, 60 Hz ¹	ASTM D150	5.2				
DISSIPATION FACTOR, 60 Hz ¹	ASTM D150	0.03				
ARC RESISTANCE ²	ASTM D495	120	seconds · · ·			

	THERMAL PROPERTIES						
	Property	Method	Result	Units			
THER	MAL COEFFICIENT OF EXPANSION ²	ASTM D696	5 x 10 ⁻⁶	inches/inch/°F			
THER	MAL CONDUCTIVITY	ASTM C-1776-76		BTU per sq. ft./hr/°F			
SPECI	FIC HEAT		0.28	BTU/lb/°F			

FULL SECTION IN BENDING						
Property	Result	Units				
MODULUS OF ELASTICITY	3.0	psi x 10 ⁵				
TENSILE STRENGTH	25,000	psi				
COMPRESSIVE STRENGTH	25,000	psi				

OTHER PROPERTIES						
Property	Method	Result	Units			
DENSITY	ASTM D792	0.065	Lbs/In ³			
SPECIFIC GRAVITY	ASTM D792	1.8				
WATER ABSORPTION, 24 HOUR IMMERSION	ASTM D570	0.5	Max % by weight			

¹Specimen tested perpendicular to laminate face

Note: Depending on the specific glass content and resin, the strength and stiffness properties may be higher.

Note: 1 psi = 6.894 KPa, 1 FT.-Ib/in = 5.442 kg-m/m

²Indicated reported value measured in longitudinal direction