



## Lamitex® PK-100

Lamitex® PK-100 is a 100% Kevlar®aramid fabric with a high temperature phenolic bond. It has excellent moisture and chemical resistance while maintaining dependable dimensional stability in continuous high temperature environments. Lamitex® PK-100 is custom formulated for use as rotor vane material in compressors and vacuum pumps for industrial processing and liquefied gas transfer.

### Physical Properties

### Test Condition

### ASTM

### PK-100

Thickness			0.125
Specific Gravity		D792	1.3
Flexural Strength	Condition A Lengthwise Crosswise	D790	139 MPa / 20,140 psi 125 MPa / 18,150 psi
Hot Flexural Strength @ 200° C	Condition A Lengthwise Crosswise		102.3 MPa / 14,800 psi 80 MPa / 11,600 psi
Tensile Strength	Condition A Lengthwise Crosswise	D638	106.4 MPa / 15,430 psi 73.2 MPa / 10,600 psi

### Thermal Properties

Glass Transition (Tg)			162°C
Coefficient of Linear Thermal Expansion	X Axis	E831	6.24 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$
	Y Axis		12.62 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$
Coefficient of Linear Thermal Expansion as %	X Axis	E831	0.06%
	Y Axis		0.16%

All information and suggestions pertaining to the properties and uses of the materials described herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material for such use is the sole responsibility of the user. No warranty is expressed or implied, including, without limitation, warrant of merchantability or fitness for a particular purpose. Under no circumstances shall Lamitex, LLC be liable for incidental or consequential loss or damage.

Composite Tubes • Bearings • Molded Shapes • Rotary Vanes • Fabricated Parts • Vulcanized Fibre • High Temp Insulation