FRANKLIN

Composites For Today's Challenges

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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 enviroments. 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	D790	139 MPa / 20,140 psi
		Crosswise		125 MPa / 18,150 psi
Hot Flexural Strength @ 200° C	Condition A	Lengthwise		102.3 MPa / 14,800 psi
		Crosswise		80 MPa / 11,600 psi
Tensile Strength	Condition A	Lengthwise	D638	106.4 MPa / 15,430 psi
		Crosswise		73.2 MPa / 10,600 psi
Thermal Properties				
Glass Transition (Tg)				162°C
Coefficient of Linear Thermal Expansion	X Axis		E831	6.24 µm/m-°C
	Y Axis			12.62 µm/m-°C
Coefficient of Linear Thermal Expansion as %	X Axis		E831	0.06%
	Y Axis			0.16%