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Lamitex SBE-60 Technical Data

Lamitex SB-60 is a high performance cotton phenolic composite formulated for heavy duty and high load bearing applications. Its heavy duty cotton fabric, modified phenolic/molybdenum disulfide resin system and high heat and pressure manufacturing process yield a bearing material with exceptional mechanical and wear resistant properties.

<u>Properties</u>		<u>Values</u>
Specific Gravity		1.4
Rockwell Hardness (M Scale)		67
Water Absorption		0.78%
Flexural Strength	Lengthwise to grain	16,200 psi
	Crosswise to grain	12,700 psi
Flexural Modulus	Lengthwise to grain	937 x 10 ³ psi
	Crosswise to grain	818 x 10 ³ psi
Tensile	Lengthwise to grain	10,200 psi
	Crosswise to grain	6,300 psi
Compressive Strength	Perpendicular to Laminations	34,000 psi
Izod Impact Strength, Notched, E 48/50	Lengthwise to grain	6.0 ft.lb/in
	Crosswise to grain	2.89 ft.lb/in
Bond Strength	Condition A	2,100 lbs
	D48/50	2,000 lbs
Shear Strength	Perpendicular to Laminations	12,200 psi
Maximum Operating Temperature		125° C
Coefficient of Thermal Expansion	X Axis	39.4"/"/°C/ x 10 ⁻⁶
	Y Axis	26.4"/"/°C/ x 10 ⁻⁶
Wear Factor	10 ⁻¹⁰ in ³ min/Ft/lb/Hr Bearing	1,600
	10 ⁻⁸ in ³ min/Ft/lb/Hr Bearing	2,000
Coefficient of Friction	Static 40 psi	0.35
	40 psi, 50	0.32
PV (LPV)		28,000

NEMA LI-6: Temperature ratings are a recommendation only and based on experience in various applications. The maximum operating temperature is dependent on the application and should be investigated prior to use.

All values are average results from extensive testing of various production materials. No warranty is implied or guaranteed and testing is recommended for each application.