

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	937×10^3 psi
	Crosswise to grain	818×10^3 psi
	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	$39.4''/''/^{\circ}\text{C} / \times 10^{-6}$
	Y Axis	$26.4''/''/^{\circ}\text{C} / \times 10^{-6}$
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

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