



Composites For Today's Challenges

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Lamitex® LEP Performance Values

Lamitex® LEP grade material is a fine weave cotton based composite infused with an epoxy resin matrix. LEP was formulated with the idea of making our cotton/phenolic grade LE more moisture resistant. This material has been used in the cryogenic, rotary vacuum and ball bearing industry with great success over many years.

Physical Properties

| | <u>Test Condition</u> | <u>ASTM</u> | <u>Values</u> |
|---|-----------------------|-------------|---------------|
| Specific Gravity | | D792 | 1.32 |
| Rockwell Hardness (M Scale) | | D785 | 105 |
| Moisture Absorption (maximum) | D 24/23 | D229 | 0.70% |
| Tensile Strength | 24 hr/23°C/50%RH | ASTM D638 | 12,000 psi |
| Compressive Strength (.196" thk) Flatwise | 24 hr/23°C/50%RH | ASTM D695 | 30,000 psi |
| Compressive Modulus | Condition A LW / CW | | 400 psi |

Thermal & Electrical Properties

| | | |
|---------------------|----------------------------------|-----------------------|
| Temperature Index | Electrical / Mechanical | 140°C / 140°C |
| Flammability Rating | | HB V-0 |
| Breakdown Voltage | Condition A / Condition D -48/50 | 75 kV / 30 kV |
| Electric Strength | Condition A / Condition D -48/50 | 300 V/mil / 280 V/mil |

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