

**CHEMFILM VB®** is the only ultra high temperature (600EF), highly conformable (550% elongation), and chemically inert vacuum bagging film available. Compare the data shown for CHEMFILM VB versus other materials typically used in composite fabrication in order to understand its superior performance, particularly for complex shapes and high temperature resins.

| Film Product | Elongation (%) | Max Temp. (°F) |
|--------------|----------------|----------------|
| CHEMFILM VB  | 550            | 600            |
| Nylon® 6     | 300            | 400            |
| Nylon® 66    | 300            | 450            |
| Nylon® 6/66  | 400            | 420            |
| Kapton®      | 90             | 800            |

#### BENEFITS

- Most conformable film for complex contours at elevated temperatures due to:
  - Higher elongation
  - Conforms better under stress
- Successfully used up to 600°F
 

**NOTE:** Adequate ventilation should be provided at temperatures above 535°F
- Chemically inert to all resin systems
- Unmatched drapability inherent to CHEMFAB VB cast film when compared to an extruded or skived material
- Free of pinholes
- Storable for indefinite time without special storage conditions
- Receptive to adhesives and sealant tapes

| Property                           | Method         | Value                             |
|------------------------------------|----------------|-----------------------------------|
| <b>MECHANICAL</b>                  |                |                                   |
| Gauge (mil)                        | ASTM D-882-83  | 3.0                               |
| Tensile Strength (psi)             | ASTM D-882-83  | 4,300                             |
| Elongation (%)                     | ASTM D-882-83  | 550                               |
| Elastic Modulus (psi)              | ASTM D-882-83  | 55,000                            |
| Yield Stress (psi)                 | ASTM D-882-83  | 1,400                             |
| Yield Strain (psi)                 | ASTM D-1505    | 2.5                               |
| <b>THERMAL</b>                     |                |                                   |
| Melt Point (psi)                   | ASTM D-1457-83 | 327°C/621°F                       |
| Maximum Continuous Serv. Temp.     | ASTM D-150     | 260°C/500°F                       |
| Coefficient of Linear Thermal Exp. | ASTM D-696     | 5.5 x 10 <sup>-5</sup> in./in. °F |

Values shown are typical. Certified test reports for writing specifications are available.

**Standard Roll Size:** 50" x 175' **Colors:** Natural, green

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