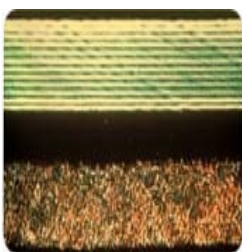


CHEMFILM® VB

CHEMFILM® VB is designed to be the only ultra-high temperature (315°C, 600°F), highly comfortable (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 Temperature °C(°F)
CHEMFILM VB	550	315 (600)
Nylon@6	300	204 (400)
Nylon@66	300	232 (450)
Nylon@66/6	400	215 (420)
Polyimide	90	426 (800)

CHEMFILM VB is available without pigment, to allow users to easily see the additional layers of the composite layup, or with a light green tint to help prevent the risk of foreign object debris in the final part. In order to provide a vacuum seal, VB is provided with a bondable surface and free of pinholes.



Multi-layer Cast Film (top) reduces risk of contamination when compared to skived film (bottom)

Advantages

- Most conformable film for complex contours at elevated temperatures due to: higher elongation, and conforms better under stress
- Successfully used up to 315°C(600°F) **NOTE:** Adequate ventilation should be provided at temperatures above 535°F
- Chemically inert
- Unmatched drapability inherent to VB cast film
- Free of pinholes
- Storable for indefinite time without special storage conditions
- Receptive to adhesives and sealant tapes

Availability

- Available up to 1270 mm (50") wide
- Green and Natural colors
- Standard Roll Size: 50" x 175'

CHEMFILM® Typical Physical Properties*

Typical Properties	Test Method	Value	Units
Mechanical			
Gauge	ASTM D-882	3.0	mil
Tensile Strength	ASTM D-882	29.6 (4,300)	MPa (psi)
Elongation	ASTM D-882	550	%
Elastic Modulus	ASTM D-882	379 (55,000)	MPa (psi)
Yield Stress	ASTM D-882	9.65 (1,400)	MPa (psi)
Yield Strain	ASTM D-882	17.2 (2.5)	kPa (psi)
Thermal			
Maximum Continuous Serv. Temp.		260(500)	°C(°F)
Coefficient of Linear Thermal Exp.	ASTM D-696	5.5x10 ⁻⁵	in./in. °F

*Represent typical performance properties and should not be used for specification purposes
Contact your Saint-Gobain Performance Plastics representative for more information.



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