

TYPICAL PROPERTIES OF CELAZOLE® PBI		
ASTM or UL test	Property	Celazole® PBI
PHYSICAL		
D792	Density (lb/in ³) (g/cm ³)	0.047 1.30
D570	Water Absorption, 24 hrs (%)	0.40
MECHANICAL		
D638	Tensile Strength (psi)	23,000
D638	Tensile Modulus (psi)	850,000
D638	Tensile Elongation at Break (%)	3.0
D790	Flexural Strength (psi)	32,000
D790	Flexural Modulus (psi)	950,000
D695	Compressive Strength (psi)	50,000
D695	Compressive Modulus (psi)	900,000
D785	Hardness, Rockwell	E105
D256	IZOD Notched Impact (ft-lb/in)	0.5
THERMAL		
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	1.3
D648	Heat Deflection Temp (°F / °C) at 264 psi	800 / 427
D3418	Glass Transition Temp (°F / °C)	750 / 399
-	Max Operating Temp (°F / °C)	650 / 343
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	2.80 9.64
UL94	Flammability Rating	V-O
ELECTRICAL		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	550
D150	Dielectric Constant at 1 MHz	4.20
D150	Dissipation Factor at 1 MHz	-
D257	Volume Resistivity (ohm-cm)at 50% RH	>10 ¹³