

<b>Physical properties</b>		
<b>Property</b>	<b>ASTM or UL test</b>	<b>BACKALITE PAPER</b>
<b>I. Physical Properties</b>		
Density (lb/in <sup>3</sup> )	D792	0.049
(g/cm <sup>3</sup> )		1.35
Water absorpoin, 24 hrs (%)	D570	2.0
<b>II. Mechanical Properties</b>		
Tensile strength (psi)	D638	15,000
- lengthwise		
- crosswise		12,000
Flexural strength (psi)	D790	16,000
- lengthwise		
- crosswise		13,200
Flexural Modulus (psi)	D790	1,100,000
- lengthwise		
- crosswise		900,000
IZOD notched impact (ft-lb/in)	D256	0.65
- lengthwise		
- crosswise		0.60
Compressive strength (psi)	D695	32,000
Hardness, rockwell M	D785	M100
<b>III. Thermal Properties</b>		
Coefficient of linear thermal expansion	D696	0.80
(x 10 <sup>-5</sup> in./in./°F)		
- lengthwise		1.20
- crosswise		
Max operating temp (°F / °C)	-	257/125
Thermal conductivity	C177	2.03
- (BTU-in/ft <sup>2</sup> -hr-°F)		
- (x 10 <sup>-4</sup> cal/cm-sec-°C)		7.00
Flammability rating	UL94	H-B
<b>IV. Electrical Properties</b>		
Dielectric strength (V/mil) short time, 1/8" thick	D149	750(XX)
Dielectric constant at 1 MHz	D150	5
Dissipation Factor at 1 MHz	D150	0.045
Arc resistance (sec)	D495	110

Note: The information contained herein are typical values intended for reference and comparison purposed only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.