



# ARBORON

Electrical Control and Test Panels Switchgear Mounting				Non-Conductive Work Benches Phase Barriers			
<b>Physical Properties</b>							
Density							86.4 lbs
Specific Gravity							1.39 g
Tensile Strength	MD	PSI	ASTM D638				22,000
	CD						14,000
Flexural Strength	MD	PSI	ASTM D790				30,000
	CD						24,000
Compressive Strength	Flatwise/Edgewise	PSI	ASTM D695				45,000/26,000
Rockwell Hardness			ASTM D785				113 M Scale
Shear Strength		PSI	ASTM D732				13,000
Oil Compatibility			ASTM D3455			No effect on electrical insulating oil/transformer oil	
Smoke Density			ASTM E662			Meets NFPA 130 (National Fire Protection Association)	
<b>Electrical Properties</b>							
Flame Classification	0.061" thx		UL 94				HB
	0.240" thx						Vo
Arc Resistance			ASTM D495				88 sec
Comparative Track Index (CTI)	600V						
Dielectric Strength			ASTM D149	Step/Step Perpendicular	Short Time Perpendicular		
	1/8"	VPM		347 volts/mil	439 volts/mil		
	1/2"	VPM		129 volts/mil	158 volts/mil		
Dielectric Breakdown			ASTM D149	Step/Step Parallel	Step/Step Perpendicular	Short Time Parallel	Short Time Perpendicular
	1/8"	VPM		60 kV	45 kV	67 kV	57 kV
	1/2"	VPM		60 kV	65 kV	62 kV	80 kV
<p>Arboron is composed of papers impregnated with melamine and Phenolic thermosetting resins, consolidated under high pressure and temperature into dense, uniform sheets with good electrical and mechanical properties. The Melamine surface of Arboron provides excellent chemical and abrasion resistance. It's very high strength-to-weight ratio and relative ease of fabrication make Arboron an excellent choice for new designs.</p>							
<p><i>Values are based on typical Test Methods and Conditions and published for Reference purposes only</i></p>							