



## ISO 9001: 2015 - QUALITY ASSURANCE

Distributor & Fabricator of Engineered Plastics & Electrical Insulation Products

# ARBORON

Electrical Control and Test Panels  
Switchgear Mounting

Non-Conductive Work Benches  
Phase Barriers

### Physical Properties

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)

### Electrical Properties

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

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.

Values are based on typical Test Methods and Conditions and published for Reference purposes only.