

## TYPICAL DATA SHEET

# D-800

## Voltoid® Electrical Barrier Material

### Description

D-800 is a resin-bonded cellulose fiber composite material. It is formulated for consistent electrical and mechanical performance under variable humidity and moisture conditions, and is recognized by UL for continuous use up to 105°C.

### Typical Properties

Property	Value	Method
Dielectric Strength, Volts/mil.	150	ASTM D 149
Hot Wire Ignition (HWI), seconds	19	ASTM D 3874
High Ampere Arc Ignition (HAI), # arcs	193	UL 746 A
Arc Resistance, seconds	136	ASTM D 495
Comparative Tracking Index, (CTI), volts	600	ASTM D 3638
Flammability Class	HB	UL 94
Relative Temperature Index, Electrical (°C)	105	UL 746 C
Relative Temperature Index, Mechanical (°C)	105	UL 746 C
UL File Number	E216806	
Density, g/cc(lb/cu.ft)	1.05 (65.5) (min.)	ASTM F 1315
Tensile Strength, MD, MPa(psi)	66 (9500) (min.)	ASTM F 152
Tensile Strength, AMD, MPa(psi)	55 (8000) (min.)	ASTM F 152
Compressibility, % (at 6.9MPa)	6	ASTM F 36
Fluid Resistance, Distilled Water		ASTM F 146
Change in Weight, %	45	
Color	Tan	

### Remarks and Related Documents

Typical values determined by the test methods required for ASTM F-104, Type 3 materials.

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