

D-100 FR

Voltoid® Electrical Barrier Material

Description

D-100 FR is a flame-resistant electrical and mechanical barrier material. It has good physical strength and electrical insulating characteristics and is intended for formed or flat parts that require resistance to flame, such as smoke detector insulation, microwave oven air duct insulation, switch spacer, TV antenna strain relief insulation, TV terminal insulator, and terminal block lead barrier insulation.

Typical Properties

Property	Value	Method
Dielectric Strength, Volts/mil.	175	ASTM D 149
Hot Wire Ignition (HWI), seconds	28	ASTM D 3874
High Ampere Arc Ignition (HAI), # arcs	114	UL 746 A
Arc Resistance, seconds	127	ASTM D 495
Comparative Tracking Index, (CTI), volts	180	ASTM D 3638
Flammability Class	V-0	UL 94
Relative Temperature Index, Electrical (°C)	90	UL 746 C
Relative Temperature Index, Mechanical (°C)	90	UL 746 C
UL File Number	E215806	
Density, g/cc(lb/cu.ft)	1.10 (68.6) (min.)	ASTM F 1315
Tensile Strength, MD, MPa(psi)	66 (9500) (min.)	ASTM F 152
Tensile Strength, AMD, MPa(psi)	48 (7000) (min.)	ASTM F 152
Compressibility, % (at 6.9MPa)	6	ASTM F 36
Fluid Resistance, Distilled Water		ASTM F 146
Change in Weight, %	40	
Color	Black	

Remarks and Related Documents

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

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