

V-090

Voltoid® Electrical Barrier Material

Description

V-090 is a flame resistant electrical barrier material including a blend of organic and inorganic fibers, inorganic fillers, and a proprietary latex binder. It has a Glow Wire rating of 900°C and a flame rating meeting UL 94 5VA, making it suitable for use in demanding fire resistant applications. Typical properties listed are for 0.4mm gauge, except where noted.

Typical Properties

Property	Value	Method
Dielectric Strength, Volts/mil.	105	ASTM D 149
Glow Wire Ignitability (GWIT), °C	900	UL 746 A
Arc Resistance, seconds	138	ASTM D 495
Comparative Tracking Index, (CTI), volts	2	ASTM D 3638
Flammability Class	5VA	UL 94
Relative Temperature Index, Electrical (°C)	115 (0.4mm gauge), 140 (0.8mm gauge)	UL 746 C
UL File Number	E215806	
Density, g/cc(lb/cu.ft)	1.04 (65) (min.)	ASTM F 1315
Tensile Strength, MD, MPa(psi)	10 (1500) (min.)	ASTM F 152
Tensile Strength, AMD, MPa(psi)	8 (1150) (min.)	ASTM F 152
Color	Grey	

Remarks and Related Documents

Typical values determined by the test methods required for ASTM F-104, Type 7 materials.

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