

Ideal for applications where long exposure to high humidity or moisture is not anticipated

D-100



APPLICATIONS

Smoke Detector:

Internal Insulator, between foil shields and circuit boards; it can also be formed into a smoke channel for the photoelectric cell.

Microwave Oven:

Foil line air ducts, in which the foil acts as a moisture barrier and the D-100 side acts as a formable electrical, flame and heat barrier.

Flourescent Lamp:

Terminal spacer/insulator

Electrical Appliance:

Accessibility panel as well as an electrical and flame barrier material.

Power Supplies:

Foil laminated enclosures which function as EMI/ESD barriers.

Impact Matrix Printers:

Open cell foam laminated sound dampening panels.

InterFace
Solutions

Technically Reliable, Cost-Effective Solutions
Available through: Accurate Felt & Gasket
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Voltoid® D-100 is an economical electrical and flame barrier, including Underwriters Laboratories' flame class rating of 94 V-0. D-100 is recommended for applications where long exposure to high humidity is not anticipated. It is a versatile material which can be riveted, stitched, stapled, and formed.

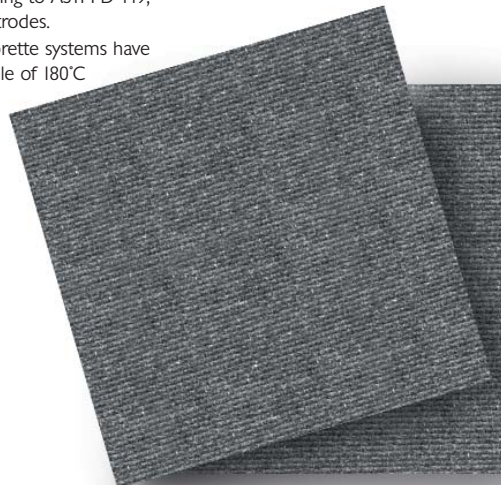


Voltoid Typical Data Structural/Electrical Insulation Materials

		Tensile Strength, MD (psi)	Tensile Strength, CD (psi)	UL 94 Flame Class	Relative Temp Index, Electrical (°C)	Relative Temp Index, Mechanical (°C)	Dielectric Strength Short Term (V/mil)	Thickness	Sheet	Roll	
D-800	High phenolic resin content for mechanical strength and rigidity. Used for support of current carrying components.	1.05	12,000	8,000	HB	105	105	270	0.031" 0.045" 0.062" 0.093" 0.125"	X	
Flame Retardant Materials											
D-100	Widely used in appliances for its economical combination of properties, including UL 94 V-0	1.10	12,000	7,000	V-0	90	90	200	0.031" 0.062" 0.093" 0.125"	X	
D-225	Superior electrical performance and flame retardance in a competitively priced barrier material.	1.10	11,000	7,000	V-0	90	90	225	0.015" 0.020" 0.031" 0.062"	X	
S-350	Cost-effective flame retardant sheet, suitable for flat and some formed parts.	0.95	9,000	4,000	V-0	90	90	170	0.020" 0.031" 0.045" 0.062" 0.125"	X	
V-090	A medium density material used primarily as a flexible composite electrical insulator.	1.04	1,500	1,150	5VA	50	50	120	0.015" 0.031"		X
HP-450	A sheet-based material designed to provide superior flame barrier properties and dimensional stability at elevated temperatures.	1.55	4,500	3,500	5VA	180°	N/A	350	0.015" 0.031" 0.045" 0.062" 0.125"	X	

- Notes:
- Typical values are based on 0.031" product.
 - Dielectric strength determined according to ASTM D 149, short term method, using type I electrodes.
 - Independent laboratory tests on motorette systems have indicated that Voltoid HP-450 is capable of 180°C upper use temperatures.

Please understand that you are responsible for the accuracy of all project specifications, including any Interface Solutions guide specifications that you use. Interface Solutions shall not be liable for any damages arising out of the use of any of its guide specifications.



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