

# S-350

## Voltoid® Electrical Barrier Material

### Description

S-350 is a cellulose-based electrical barrier and insulation material with a flame resistance rating meeting UL 94 V-0. Its combination of firmness and flexibility make it well suited for uses requiring part fabrication by creasing, cut scoring, forming, and printing.

### Typical Properties

Property	Value	Method
Dielectric Strength, Volts/mil.	170	ASTM D 149
Hot Wire Ignition (HWI), seconds	115	ASTM D 3874
High Ampere Arc Ignition (HAI), # arcs	75	UL 746 A
Arc Resistance, seconds	75	ASTM D 495
Comparative Tracking Index, (CTI), volts	250	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)	0.95 (59.2) (min.)	ASTM F 1315
Tensile Strength, MD, MPa(psi)	62 (9000) (min.)	ASTM F 152
Tensile Strength, AMD, MPa(psi)	28 (4000) (min.)	ASTM F 152
Compressibility, % (at 6.9MPa)	6	ASTM F 36
Fluid Resistance, Distilled Water		ASTM F 146
Change in Weight, %	70	
Color	Blue-Grey	

### Remarks and Related Documents

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

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For more information, please visit [www.InterfaceMaterials.com](http://www.InterfaceMaterials.com) or contact

WORLD HEADQUARTERS  
Interface Performance Materials, Inc.  
216 Wohlsen Way  
Lancaster, PA 17603  
USA  
+1.717.207.6000

TECHNICAL CENTER  
Interface Performance Materials, Inc.  
215 Wohlsen Way  
Lancaster, PA 17603  
USA  
AE@InterfaceMaterials.com  
+1.717.207.6000

NORTH AMERICA  
Interface Performance Materials, Inc.  
22260 Haggerty Road, Suite 200  
Northville, MI 48167  
USA  
+1.248.596.2800

ASIA PACIFIC  
Interface Sealing Solutions Shanghai Co., LTD  
Unit 14F, No. 728  
Yan An Road West, Changning District  
Shanghai 200050  
China  
+8621.5238.5650

INDIA  
Interface Performance Materials India LLP  
Mandkola Road, Vill. Atta, Sohna,  
Distt: Mewat, Nuh-122103 (Haryana)  
+91.0124.8930992166

EUROPE & SOUTH AMERICA  
Interface Sealing Solutions Europe  
Lili Pean, Le Bourg  
Bonloc 64240  
France  
+33.5.5929.1220

GERMANY  
Interface Performance Materials  
Altenkirchen GmbH  
P.O. Box 12 63  
Koblenzer Strasse  
Altenkirchen D-57610  
Germany  
+49.2681.80020