

**THERMALLY CONDUCTIVE FOAMED ACRYLIC TAPE
VST7120W
TECHNICAL DATA**

TECHNICAL DESCRIPTION	UNIT OF MEASUREMENT		TECHNICAL VALUE	
CARRIER			ACRYLIC FOAM	
ADHESIVE			ACRYLIC	
COLOUR			WHITE	
THICKNESS	mm	ins	1.2	0.047
RELEASE LINER			PAPER	
DENSITY OF FOAM (ASTM D-1000)	kg/m ³	lbs/ft ³	1500	94
180° PEEL ADHESION (ASTM D-3330) Stainless Steel Aluminium Copper	g/25mm	lbs/in	1600 800 1200	3.6 1.8 2.7
TENSILE ADHESION (T-BLOCK TEST) (ASTM D-897, Aluminium, room temp)	g/cm ²	lbs/in ²	8400	119
DYNAMIC SHEAR (ASTM D-1002, Room temperature after 24hrs) Stainless Steel Aluminium Copper	g/cm ²	lbs/in ²	4500 3000 3500	64 43 50
TEMPERATURE RESISTANCE SHORT TERM	°C	°F	160	320
TEMPERATURE RESISTANCE LONG TERM	°C	°F	100	212
LOW TEMPERATURE RESISTANCE	°C	°F	-30	-22

Unless stated otherwise all values given are average. All of the tapes in our range should be thoroughly tested on the substrates in the particular application they are intended for. Hi-Bond Tapes Ltd. will not be responsible for product failure unless full testing has been completed. The customer has to decide on the tapes suitability for the intended application.

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TECHNICAL DATA continued...**

SURFACE RESISTANCE (ASTM D-257)	Ω/cm	Ω/inch	2.0	5.08
	$(\times 10^{14})$			
VOLUME RESISTIVITY (ASTM D-257)	Ω/cm	Ω/inch	1.3	3.30
	$(\times 10^{13})$			
5.08 DIELECTRIC BREAKDOWN VOLTAGE (IEC-60243-1)	kV		18	
DIELECTRIC STRENGTH (IEC-60243-1)	kV/mm	volts/inch	15	381
THERMAL CONDUCTIVITY (TCi)	W/(m/K)	Btu/(ft/hr/°F)	0.6	0.347

VST 7 series tapes are thermally conductive acrylic foam tapes developed to conduct heat away from the source, thereby reducing the chance of over-heating. Typical applications are: electronic devices such as LED / PDP modules, LED signage, back-lit televisions and CPUs in desktop and laptop computers.

Material safety datasheets (MSDS) and application instructions are available upon request.

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