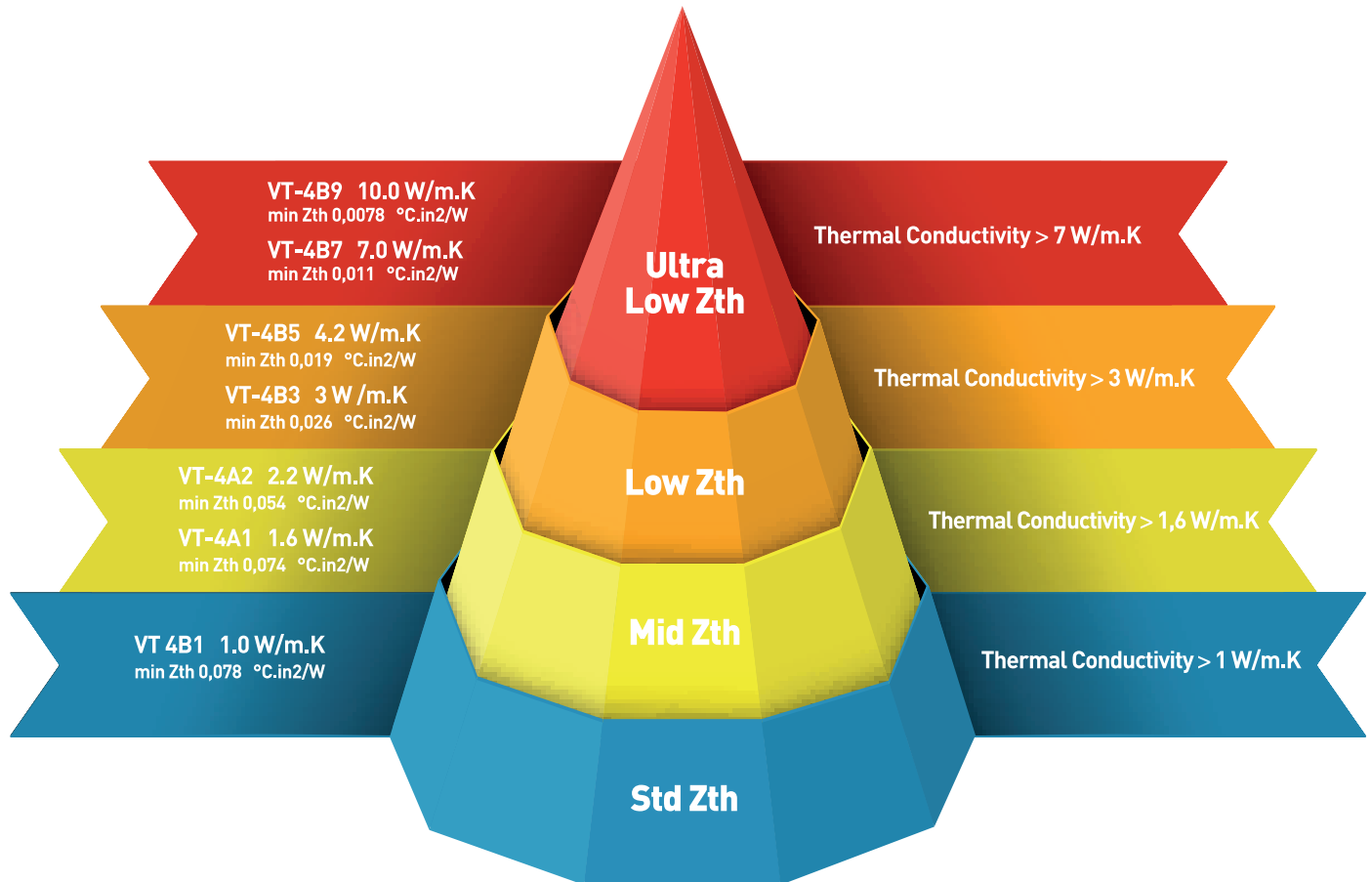




VT-4B1

UL Approval: E214381 Version: B6

Aluminum Base Laminate/RCF (Resin Coated Film)



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Aluminum Base Laminate/RCF (Resin Coated Film)

General Information

- > Thermal conductivity -- 1.0W/mK
- > Ceramic Filled
- > Halogen Free
- > Flammability UL94 V0
- > MOT 130°C
- > Super Bending Performance

Application

- > 3D Lighting
- > Power Conversion
- > PDP, LED, Regulator for TV
- > Monitor Drives
- > Rectifier, Power Supply

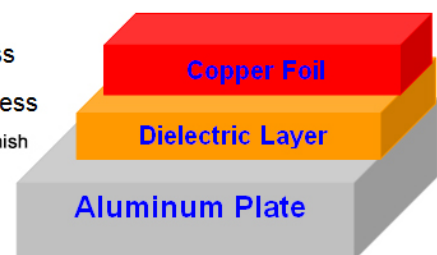
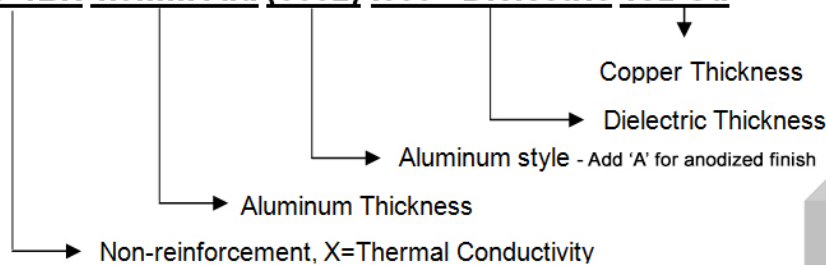
Storage Condition & Shelf Life

		Prepreg		Laminate
Storage Condition	Temperature	< 23°C (73°F)	< 5°C (41°F)	Room
	Relative humidity	< 55%	/	/
Shelf Life		2 months	4 months	24 months

The RCC exceeding shelf life should be retested.

Designation of IMS Laminate

VT-4BX 1.0mm Alu (5052) .003" Dielectric 1oz Cu



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Aluminum Base Laminate/RCF (Resin Coated Film)

Laminate Properties

Item	Test Method (IPC-TM-650)	Unit	VT-4B1			
			50um	75um	100um	
Thermal Conductivity	ISO22007-2	W/m*K	1.0			
Thermal Impedance	ISO22007-2	°C*in ² /W	0.078	0.116	0.166	
Tg	DSC	2.4.25	°C			
Td	TGA	ASTM D3850	°C			
Thermal Stress	Solder Dip @ 288°C	2.4.13.1	Minute			
Hi-Pot Withstand	DC	2.5.7.2	V	2000	3000	4000
Breakdown Voltage	AC	2.5.6.3	V	3500	6000	7500
Dk @ 1MHz	C-24 /23 / 50	2.5.5.3	-			
Df @ 1MHz	C-24/ 23 / 50	2.5.5.3	-			
Volume Resistance	After Moisture	2.5.17.1	MΩ-cm	5.0E+8		
	E-24/125			3.0E+7		
Surface Resistance	After Moisture	2.5.17.1	MΩ	2.0E+7		
	E-24/125			5.0E+6		
Peel strength (1oz)	As Received	2.4.8	Lb/in	11		
CTI	As Received	ASTM D3638	V	600		
Flammability	As Received	UL 94	Rating	V0		
RTI	Electric	UL 94	°C	130		
	Mechanical	UL 94	°C	130		

All test data provided are typical values and not intended to be specification values.

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Aluminum Base Laminate/RCF (Resin Coated Film)

Availability

Laminate

Item		Availability
Dielectric		.002" (50um), .003" (75um), .004" (100um)
Standard Size	Imperial	18.11*24.02, 20.08*24.02, 20.98*24.02, 18.11*48.03, 20.08*48.03, 20.98*48.03
	Metric	460*610, 510*610, 533*610, 460*1220, 510*1220, 533*1220
Copper Weight		Hoz, 1oz, 2oz
Aluminum Thickness		0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm
Aluminum Alloy		1100, 5052, or as required

RCF

Item	Availability
Dielectric	.002" (50um), .003" (75um), .004" (100um)
Flow-in	70~250mil
Standard Size	Width: 18.74" (476mm), 20.63" (524mm), 21.61" (549mm) Length: Max 49.06" (1246mm)
PET Film	75um

Protective Film for Aluminium Plate

Type	Material	Max Operation Temperature
Standard	PET	170 °C
High Temperature	Polyimide	270 °C

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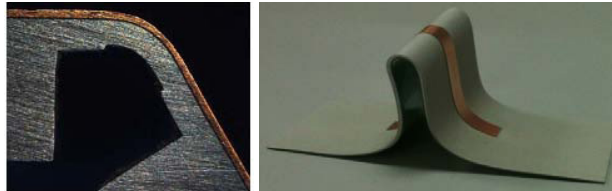
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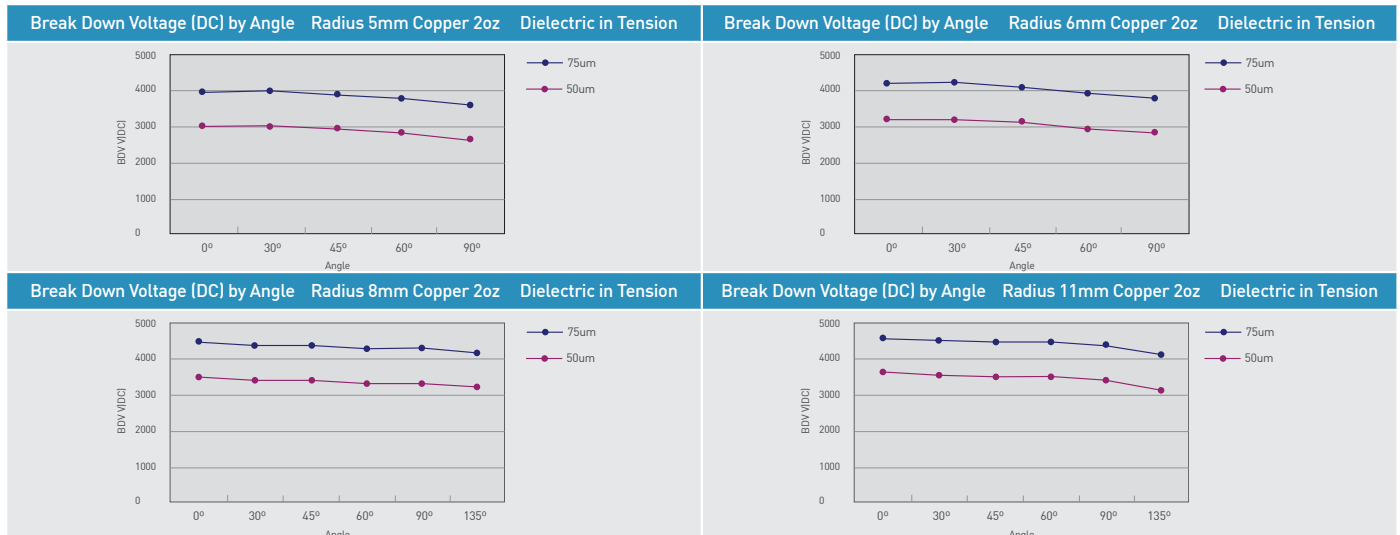
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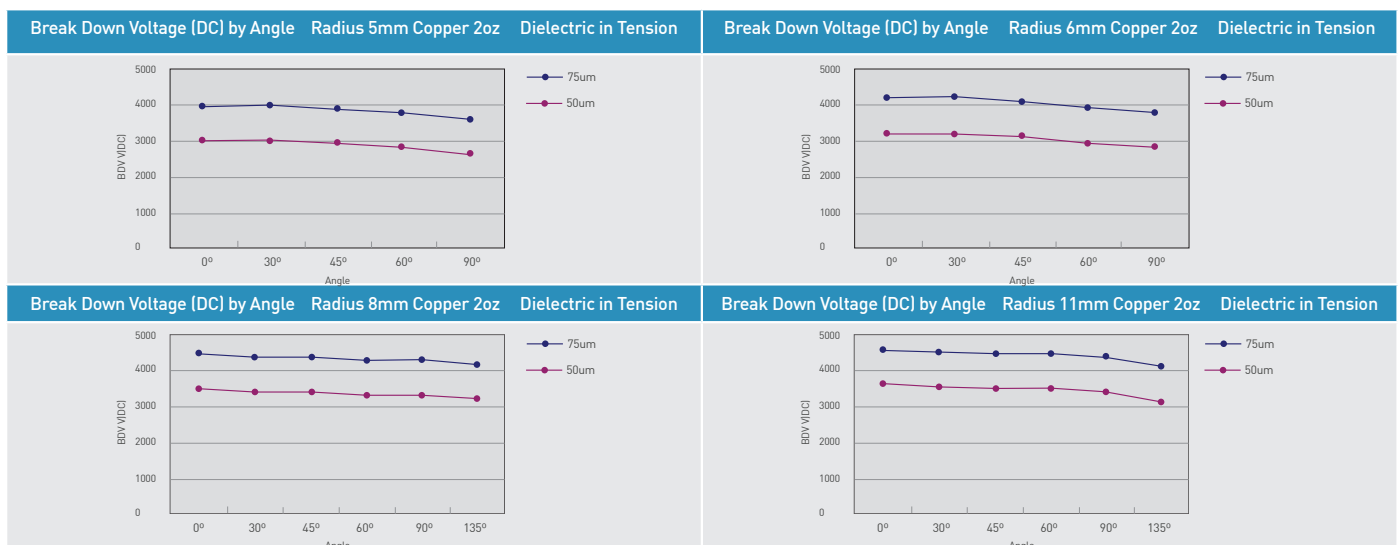
Bending Performance



Back Side Milling (Dielectric in tension)



Direct Rolling (Dielectric in tension)



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