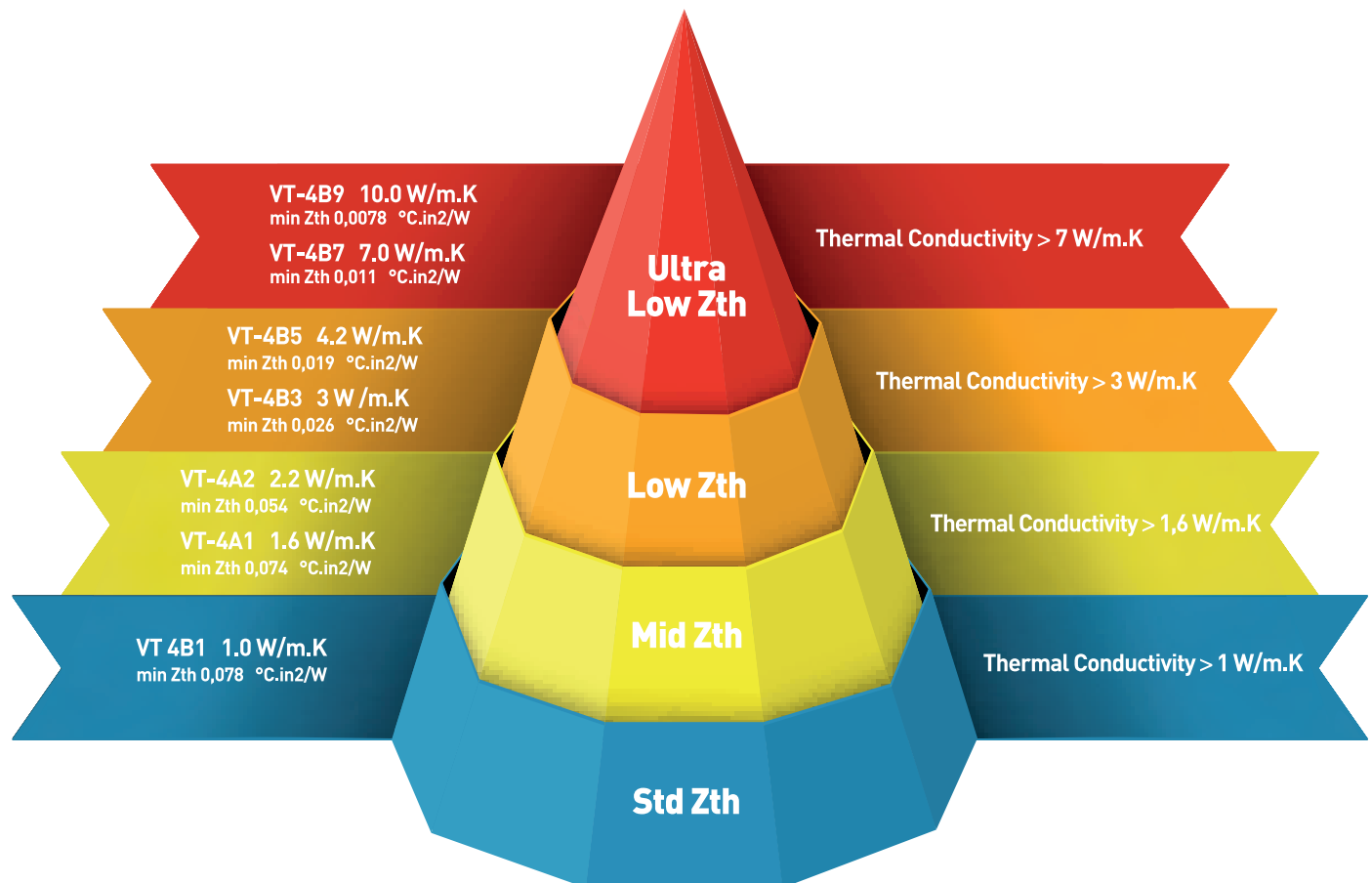




VT-4B3

UL Approval: E214381 Version: B8

Aluminum Base Laminate/RCF (Resin Coated Film)



CORPORATE HEADQUARTERS

Ventec Electronics Co. Ltd.
308 TaiShan Rd,
New District Suzhou,
Jiangsu, P.R. China 215129
T: +86 512-68091810
Email: sales@ventec.com.cn

EMEA REGIONAL HEADQUARTERS

Ventec Europe
Unit 1 Trojan Business Centre,
Tachbrook Park Estate,
Leamington-Spa, CV34 6RH, UK
T: +44 1926-889822
Email: sales@ventec-europe.com

AMERICAS REGIONAL HEADQUARTERS

Ventec USA
21 Water Street, Amesbury,
Massachusetts, MA 01913,
United States of America
T: +1 978-5219700
Email: saleseast@ventec-usa.com

www.ventec laminates.com

VT-4B3

UL Approval: E214381 Version: B8

Aluminum Base Laminate/RCF (Resin Coated Film)

General Information

- > Thermal conductivity -- 3.0W/mK
- > Ceramic Filled
- > Halogen Free
- > Flammability UL94 V0
- > MOT 130°C

Application

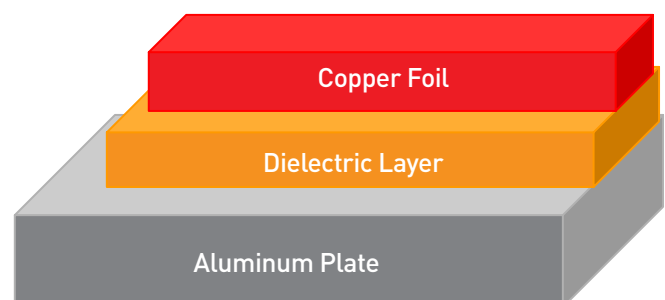
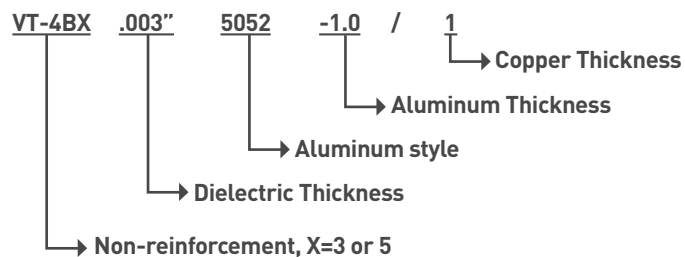
- > Ultra bright LED Substrate
- > Power Conversion
- > PDP, LED, Regulator for TV
- > Monitor Drives
- > Rectifier, Power Supply

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



CORPORATE HEADQUARTERS

Ventec Electronics Co. Ltd.
308 TaiShan Rd,
New District Suzhou,
Jiangsu, P.R. China 215129
T: +86 512-68091810
Email: sales@ventec.com.cn

EMEA REGIONAL HEADQUARTERS

Ventec Europe
Unit 1 Trojan Business Centre,
Tachbrook Park Estate,
Leamington-Spa, CV34 6RH, UK
T: +44 1926-889822
Email: sales@ventec-europe.com

AMERICAS REGIONAL HEADQUARTERS

Ventec USA
21 Water Street, Amesbury,
Massachusetts, MA 01913,
United States of America
T: +1 978-5219700
Email: saleseast@ventec-usa.com

www.ventec laminates.com

VT-4B3

UL Approval: E214381 Version: B8

Aluminum Base Laminate/RCF (Resin Coated Film)

Laminate Properties

Item		Test Method (IPC-TM-650)	Unit	VT-4B3						
				50um	75um	100um	125um	150um	180um	230um
Thermal Conductivity		ISO22007-2	W/m*K	3.0						
Thermal Impedance		ISO22007-2	°C*in ² /W	0.027	0.040	0.053	0.067	0.080	0.095	0.130
Tg	DSC	2.4.25	°C	130						
Td	TGA	ASTM D3850	°C	380						
Thermal Stress		Solder Dip @ 288°C	Minute	≥5						
Hi-Pot Withstand	DC	2.5.7.2	V	2000	3000	4000	5000	6000	8000	10000
Breakdown Voltage	AC	2.5.6.3	V	4000	7000	8000	9000	10000	11000	13000
Dk @ 1MHz	C-24 /23 / 50	2.5.5.3	—	4.8						
Df @ 1MHz	C-24/ 23 / 50	2.5.5.3	—	0.016						
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.

CORPORATE HEADQUARTERS

Ventec Electronics Co. Ltd.
 308 TaiShan Rd,
 New District Suzhou,
 Jiangsu, P.R. China 215129
 T: +86 512-68091810
 Email: sales@ventec.com.cn

EMEA REGIONAL HEADQUARTERS

Ventec Europe
 Unit 1 Trojan Business Centre,
 Tachbrook Park Estate,
 Leamington-Spa, CV34 6RH, UK
 T: +44 1926-889822
 Email: sales@ventec-europe.com

AMERICAS REGIONAL HEADQUARTERS

Ventec USA
 21 Water Street, Amesbury,
 Massachusetts, MA 01913,
 United States of America
 T: +1 978-5219700
 Email: saleseast@ventec-usa.com

www.ventec laminates.com

VT-4B3

UL Approval: E214381 Version: B8

Aluminum Base Laminate/RCF (Resin Coated Film)

Availability

Laminate

Item		Availability
Dielectric		.002" (50um), .004" (100um), .005" (125um), .006" (150um), .007" (180um), .009" (230um)
Standard Size	Imperial	18*24, 20*24, 21*24, 18*48, 20*48, 21*48
	Metric	457*610, 508*610, 533*610, 457*1220, 508*1220, 533*1220
Copper Weight		1/3oz, Hoz, 1oz, 2oz, 3oz, 4oz, 6oz
Aluminum Thickness		0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm, 2.0mm, 3.0mm
Aluminum Alloy		1100, 5052, or as required

RCF

Item	Availability
Dielectric	.003" (75um), .004" (100um)
Flow-in	70~250mil
Standard Size	Width: 18.7" (476mm), 20.6" (524mm), 21.6" (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

CORPORATE HEADQUARTERS

Ventec Electronics Co. Ltd.
 308 TaiShan Rd,
 New District Suzhou,
 Jiangsu, P.R. China 215129
T: +86 512-68091810
Email: sales@ventec.com.cn

EMEA REGIONAL HEADQUARTERS

Ventec Europe
 Unit 1 Trojan Business Centre,
 Tachbrook Park Estate,
 Leamington-Spa, CV34 6RH, UK
T: +44 1926-889822
Email: sales@ventec-europe.com

AMERICAS REGIONAL HEADQUARTERS

Ventec USA
 21 Water Street, Amesbury,
 Massachusetts, MA 01913,
 United States of America
T: +1 978-5219700
Email: saleseast@ventec-usa.com

www.ventec laminates.com