

Polycarbonate, bromine-free, flame-resistant insulation sheet
SunMorfee™ V

What is SunMorfee™ V?

SunMorfee™ V is a polycarbonate, bromine-free, flame-resistant insulation sheet Sun Delta has developed. SunMorfee™ V has been employed in varied applications such as LCD TV and power supply adapter for note-book PC for long time and proved to be high reliable insulation sheet.



Point 1 Excellent flame resistance
(UL File No.E301813)

✓ 0.40~3.0mm UL94 V-0
✓ 0.10~0.30mm UL94 VTM-0

Point 2 Environmentally friendly material

- Without using brominated or phosphate flame retardant agent
- Qualified for RoHS
- Qualified for Blue Angel Mark

Point 3 Maintains excellent heat stability and the same mechanical properties of polycarbonate resin

RTI at 130°C approved

Heatproof

durability for bending, high impact strength, high heat resistance

Revised registration of SunMorfee™ V
"RTI(Ele/ Imp/ Str)= 130/ 120/ 130[°C]"
(0.1-3mm thickness of material)

Applications



Notebook PC



Projector

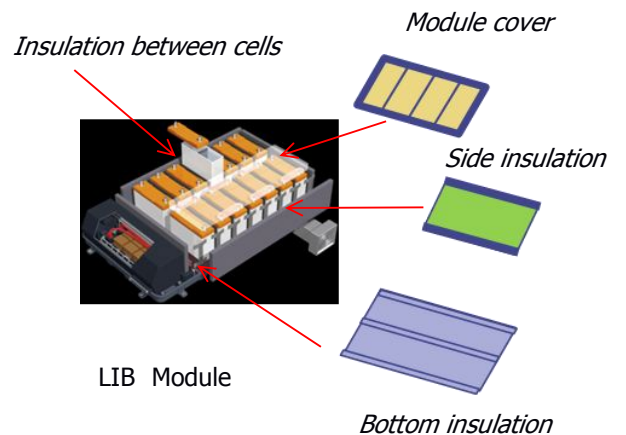


LCD TV



AC Adapter

Best solution to electric insulation separator with thin film and vacuum forming in LIB module.



Characteristics

Item	Test method	Unit	SunMorfee™ V
Part number	-		VS120 (natural translucent) VS520 (black)
Thickness	-	mm	0.1 ~ 0.3mm (VTM-0) 0.4 ~ 0.8mm (V-0)
Specific gravity	JIS K7112	-	1.23
Deflection temp. under load (DTUL, 1.8MPa)	JIS K7191	°C	130
Breakdown voltage	ASTM D149	AC kV	32 (@ 0.5mm)
Long-term heat resistance (UL RTI registration)	UL	°C	Elec/ Imp/ Str = 130/ 120/ 130 (0.1mm~3mm) (UL file No. E301813)

*The above are just measurements, not guaranteed.

UL registration

Component - Plastics

E301813

SUN DELTA CORP

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VS(f)

Polycarbonate (PC), furnished as sheets or film

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC, BK	0.07-0.1	VTM-0	-	-	80	80	80
	0.1-0.33	VTM-0	3	4	130	120	130
	0.4	V-0	3	3	130	120	130
	3.0	V-0	2	3	130	120	130

Comparative Tracking Index (CTI): 3

Dielectric Strength (kV/mm): -

High-Voltage Arc Tracking Rate (HVTR): 3

Dimensional Stability (%): -

(f) - May be replaced by any digit 000-999, except 560 and 160.

Inclined Plane Tracking (IPT): -

Volume Resistivity (10° ohm-cm): -

High Volt, Low Current Arc Resis (D495): 7

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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Product line

Roll product;

0.1 mm (t) × 600 mm (W) × 600 M (L)
0.2 mm (t) × 600 mm (W) × 300 M (L)
0.3 mm (t) × 600 mm (W) × 200 M (L)
0.43 mm (t) × 600 mm (W) × 140 M (L)
0.5 mm (t) × 600 mm (W) × 120 M (L)

Cut sheet;

0.43 mm (t) × 600 mm (W) × 1,200mm (L)
0.5 mm (t) × 600 mm (W) × 1,200mm (L)
0.8 mm (t) × 600 mm (W) × 1,200mm (L)

Contact info.

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