

 DONG-BU FINE CHEMICALS CO. ELECTRONIC MATERIAL DIVISION	MAXBOND	PAGE
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GB-508W has further enhanced the electrical characteristics and thermal resistance of other products. It is high performance self-extinguishing adhesive of flammability UL 94V-0 mainly consisting of synthetic resin. It is normal temperature heat contact type and demonstrates a high adhesive strength when a small pressure is applied.

1. Specifications

● MAIN COMPONT	SYNTHETIC RESIN
● COLOR	WHITE
● SOLID COMPONENT	62 ± 2%
● VISCOSITY	40,000 - 60,000 CPS (20℃)
● SPECIFIC GRAVITY	1.30 ± 0.05
● DRYING TIME	1~2min (At room temperature)
● FULL CURING TIME	48hrs (At room temperature)

2. Aplication

- Sealing, adhering and fixing for the purpose of insulating, dustproofing, vibration proofing and fixing electrical and electronics parts.
- circu Fixing discrete parts onto printed it boards.
- Fixing and priventing movement of large parts during soldering process.
- General sticking for metal, glass, plastics, rubber, wood etc.

3. Characteristics

- Sealing, adhering and mounting, vibration proofing and fixing electrical and electronics parts.
- Metal sticking for steel, aluminium, copper.
- Hard plastic sticking for ABS, phenol resin, styrol.
- It has good workability with minimum cobwebbing and sagging and enables bonding works.

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4. BOND PROPERTIES

1) Adhesive strenhth in room temperature

	Initial	1day	3day	7day	10day
Peel strength (kgf/25mm)	2.35	4.86	7.96	7.60	8.20
Tensil sheer strength (kgf/cm ²)	19.36	10.54	11.47	18.60	19.22

※ Initial : 60℃ X 3hours, peel strength : sus/sus, tensil sheer strength : pvc/pvc

2) adhesion strength at conditions

Substrate	Adhesion strength		
	initial	aging 120℃, 500hr	aging 120℃, 2000hr
PVC (soft)	75.6	110.4	–
PVC (hard)	140.5	180.2	–
COPPER	17.87	512.3	425.8
Fe	30.9	496.3	547.88
Al	23.5	400.8★	380.5★

5.SOFTENING POINT

Substrate	Softening point	Aging condition
Fe/Fe	Over 200℃	23℃ x 7days

※ Adhesion area : 2.5cm x 2.5cm

※ Load : 500g ± 1

※ TEST METHOD : KS M 3705

Temp condition : Increase 2℃/5min (38℃~200℃)

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6. ELECTRICAL CHARACTERISTICS

Surface of insulation resistance(Ω)

Initial	Aging	Aging condition
$1.0 \times 10^{12} \Omega$	$1.0 \times 10^{13} \Omega$	100℃ 500Hrs
	$1.0 \times 10^{13} \Omega$	60℃ × 90% RH 500Hrs

7. COMBUSTION TEST

- 1). Test Methods : (1)Put 5inch X 1/2inch in the fire (Gas flame)
(2)Watch the tested strip after 10 sec
(3)After it is extinguished, put it in the fire at 10 sec
(4)Then record the combustion time, existence of a load, the combustion of absorbent cotton, glowing
- 2). Beforehand treatment : (1)Leaving it alone 48HR at $23 \pm 2^\circ\text{C}$,
RH50 $\pm$ 5%
(2)Leaving it alone in the oven (at $70 \pm 1^\circ\text{C}$)
by 168HR

3)Test result

Thickness	Beforehand treatment	The combustion time			10 times
		First test combustion time	2 times combustion test		Total Flaming
			Flaming	Flaming+Glowing	5 EA
0.8 mm	A	0 sec(a)	2 sec	5 sec(a)	7 sec
	B	0 sec(a)	2 sec	4 sec(a)	6 sec
3.2 mm	A	0 sec(a)	1 sec	5 sec(a)	6 sec
	B	0 sec(a)	1 sec	4 sec(a)	5 sec
UL94's Demand condition	V-0	10 sec(b)	10 sec	30 sec(b)	50 sec
	V-1	30 sec(b)	30 sec	60 sec(b)	250 sec
	V-2	30 sec	30 sec	60 sec	250 sec

- (a) : No load, (b) : exist no load to burn absorbent cotton,
(c) : exist a load to burn absorbent cotton

8. USED METHOD

- 1).Beforehand treatment : Eliminated water, oil, dust, an clear the surface for attached
- 2).Spread methods : Spread the adhesive flatly with the brush or hera

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- 4).After spread adhesive at the both surface for attached material, dry for minute. After two both surface and press a long time

9.Cautions

- 1) Before using this product, read the MSDS of this product and prepare safety equipment.
- 2) Some product contains organic chemical materials. Avoid inhalation. May cause mild irritation to the nose, throat and respiratory tract(coughing, shortness of breath) and may result in central nervous system depression(headache, dizziness, giddiness, nausea)
- 3) Keep product containers cool, dry and away from any sources of ignition.
- 4) Use and store this product adequate ventilation.
- 5) Because some product contains volatile organic materials, take adequate safety equipment when you use this item.
- 6) Avoid skin contact with the product in a liquid state. This product is irritating to the skin. It may cause sensitization.
If contacted to skin, clear with Acetone and then lots of water.
- 7) In case of containing filler, stir adequate before using.
- 8) Keep away from children and don't keep in drinking bottle.
- 9) Do not use other purpose except adhesion.

Caution

Please read the MSDS and abide by related rule before using this product.
This material prepared by various experiment and technical information but could be change no previous notice. Recommended using method and result are just reference materials. It is not assure condition and result in your company.
Consequently, please consider suitability in your using condition before using and consider performance and effect.
Recommended using method and applications are not assure that it could not be included industry property of disinterested party.
If you have any question, please call our company.
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