



Technical Data Sheet

- **Product name** ▪ BK-A 1000
- **Adhesive type** ▪ Acrylic pressure sensitive adhesive(Solvent type/Two components)
- **Colour** ▪ Colorless / transparent

☞ Please mix the adhesive/hardener well at a ratio of 100/0.1 before using.

- **Physicl properties**

- **Total solids** ▪ Around 30%
- **Odor(monomer)** ▪ None
- **Viscosity(30%)** ▪ 2,200 ± 100 cps(22°C) / Brookfield viscometer(DV2T)

- **CREEP TEST (Overlap area: 25 x 25 mm² / 1kg x 1 hour dwell time to stainless steel)**

Stainless steel / Thickness		5 μ m	20 μ m	50 μ m
Hardener 0.10	Creep test-1	200°C (50%)	200°C (50%)	200°C (50%)
	Creep test-2	150°C	160°C	160°C

☞ Note: Creep test(no slippage after creep test at 200°C for 1 hour with a holding weight of 1kg)

Creep test-1(At temperature maintained for 1 hour), (%)Degree of traces on SUS plate

Creep test-2(No traces at temperature maintained for 1 hour)

- **180° Peel adhesion by substrates(300mm/min at R.T.); UTM(500N)/ZwickRoell**

Substrates		5 μ m ~ 50 μ m (Thickness after drying)
Hardener 0.10	SUS	0.40 ~ 1.90 kgf/in
	Glass	0.50 ~ 1.90 kgf/in

☞ Note: No traces on a substrates after testing(5 μ m ~ 50 μ m thickness)

- **Visco-stability(Hardener: 0.10%) / Brookfield viscometer(30% solids / 22°C)**

	Initial	After 1 hour	After 2hours	After 4 hours	After 8 hours
Viscosity	2,200 cps	2,480 cps	2,400 cps	2,420 cps	2,450 cps

- **180° Peel adhesion by storing periods(300mm/min at R.T.); UTM(500N)/ZwickRoell**

	After tape making *	After tape affixed to SUS **
Initial	1.00 kgf/in	1.00 kgf/in
After 6 month	0.90 kgf/in	2.10 kgf/in

☞ Note: Thickness(20 μ m)

* After 6 months of making the tape, affix it to a SUS and measure(no traces)

** Affixed the tape to the SUS then storing for 6 month and measure(no traces)

- **Features:**
 - Excellent heat resistance(no slippage after creep test at 200°C x 1 hr x 1kg)
 - Suitable viscosity for use and visco-stability
 - No traces at all on the substrates even when peeled off a tape after storing for long term periods a tape affixed to the substrate.
 - Stable adhesion performance even after storing for a long term periods
 - Excellent adhesion performance to various substrates

- **Applications:**
 - Flexible Printed Circuit Board (FPCB)
 - Lead-free solder reflow process (PCB and semiconductor)
 - For automotive under-hood applications



BO KWANG Co.

Technical Data Sheet

(Heat resistance test)

2/2

- **Product name** ▪ BK-A 1000
- **Adhesive type** ▪ Acrylic pressure sensitive adhesive(Solvent type/Two components)
- **Colour** ▪ Colorless / transparent

☞ Please mix the adhesive/hardener well at a ratio of 100/0.1 before using.

■ Product description

- **A company**
 - Double sided adhesive transfer tape(Acrylic PSA/Clear)
 - Temperature tolerance(Short / Long term): 280°C / 177°C
 - Printed circuit boards that require high temperature environments
- **BK-A 1000**
 - Acrylic PSA(Solvent type/Transparent)
 - Creep testing: >200°C (No slippage), 25 x 25 mm² x 20μm
 - ☞ 1kg x 1 hour dwell time to stainless steel
 - FPCB and electronic materials that require heat resistance

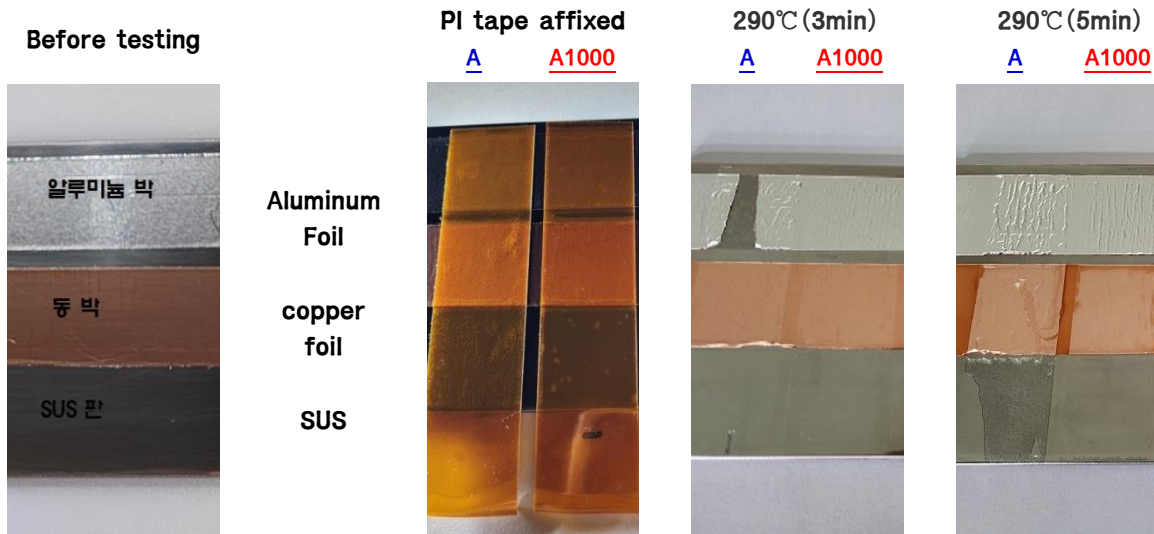
■ Preparation of specimens for heat resistance testing

- **A company**
 - Affix the tape to the PI film(25mm width) directly
- **BK-A 1000**
 - Coating acrylic PSA on PI film(25mm width) directly
 - ☞ After coating, heat treatment and aging for 16 hours before use.

■ Test conditions

- Specimens were affixed to copper foil/aluminum foil/SUS and left in the oven at 290°C.
- Left for 3 and 5 minutes in the oven respectively
- Remove the PI tape and check the traces on the each substrates.

■ Test results



■ Memo

BOKWANG CORPORATION / ULSAN PLANT / TECHNICAL DEPT.

3, 217 Beon-Gil(Yochun-Dong), Yochun-Ro, Nam-ku, Ulsan, Korea / Tel. 052-272-5461(240)