

CAT-1300S ADHESIVE

(Adhesive for Screen Printing)

CAT 1300S ADHESIVE is a pressure-sensitive adhesive for screen printing, mainly composed of a special acrylic resin. Capable of printing free patterns by screen printing on nameplates, labels, stickers, etc. using various plastics, paper, metals, etc. as substrates, and partial adhesive processing is also possible.

Application	Pressure-sensitive adhesive applied by screen printing to membrane switches and various nameplates.
Special Features	<ul style="list-style-type: none"> • High adhesive strength, excellent holding power, and excellent resistance and weather resistance. • Superior printability and leveling • Good stencil stability
Substrate	Various plastics, paper, metals, etc.
Dilution	C-002 SOLVENT (standard) Dilution: 1 to 3% *Dilution is not necessary. Do not use other solvents or additives as they may adversely affect adhesion, etc.
Recommended Cleaner	Screen Cleaner L2
Mesh	T 50 to 100 mesh (Recommended printed ink layer is 25~35 μ m, please print as thick an ink layer as possible)
Drying	80°C 20 min or more
Caution	<ul style="list-style-type: none"> • Plastic substrate contains plasticizers or release agents, which may have unexpected adverse effects. Please confirm the performance thoroughly before use. • Please note that printing CAT-1300S adhesive on screen-printed materials may cause a significant decrease in adhesive strength due to the type of ink or poor drying of the ink. • When CAT-1300S adhesive is printed on a transparent sheet that is back printed, metallic and black colors tend to change hue slightly due to the adhesive printing. To prevent such problems, laminate the printed material with PET film, etc., before printing CAT-1300S adhesive. • For adhesive printed materials, please affix release paper to the printed surface as soon as possible after drying to prevent adhesion of dust, etc. • Surface of substrate should be thoroughly cleaned of moisture, oil, and other dirt before printing. • Please do not put adhesive in metal cans and use polyethylene containers instead as it may cause color change. • Ink shelf life: 9 months from production date, unopened

Safety

UN No.: 1210

UN Classification: Class 3 Flammable Liquids (Flash point is over 23 Degree C)

Handling

- Use safety gloves and eyeglasses to protect skin and eyes. If the ink comes in contact with skin, wash with soap and plenty of water (or lukewarm water) and consult with a doctor.
- Containers should be closed tightly after use and stored in a cool and dark place.
- SDS is available upon request. Please request a copy and read it carefully before handling the products.

Resistance

Item	Results	
Appearance	Light yellow liquid	
Solid %	50±2%	
Viscosity	4000±500cps	
Adhesive Power g/25mm	90°Peel ABS	800 g
	90°Peel SUS	950g
	180°Peel ABS	1300g
	180°Peel SUS	2750g
Holding power 1kg, 40°C	1mm or less	
Ball Tack	15	

Test item	Test Conditions	180° Peel strength
Heat	80°C 200 hrs.	2150g
Cold	-20°C 200 hrs.	2600g
Water	Soak 24 hrs. in tap water	2270g
Acid	Soak 24 hrs. in 2% H ₂ SO ₄	1900g
Alkaline	Soak 24 hrs. in 2% NaOH	1640g
Detergent	Soak 24 hrs. in household detergent (Magiclean)	1770g
Oil	Soak 24 hrs. in machine oil	1690g
Weather meter	200 hrs.	800g
Reference		2750g

*Test condition 【CAT-1300 ADHESIVE】 【100°C 2 min】 【Aging: 23°C×65%RH,24 hrs.】
 【Adhesive strength: One day after application, peel speed 300mm/min vs SUS】
 【Holding power: application area 25 x 25mm, 1kg weight x 1000 min】
 【Ball Tack:J. Dow method(23°C)】

*Above resistance test results are measured results in our laboratory and they are not guaranteed values.

*Information contained in this catalog may change without prior notice.

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