

ELITE (HK) CO.,LTD

PRODUCT DESCRIPTION

ELITE-J4300 is two parts epoxy adhesive for bonding of difference material with high tensile shear strength such as aluminum, steel, stainless steel, glass, ceramic and some plastic, J4300 formul ate with fast cure which working time in 3 minutes at room temperature, it's ideal for bonding, potting and sealing application.

FEATURE

Easy Dispensing, Fast set High Shear Strength Excellent Chemical Resistance

APPLICATION

Assembly of metal, glass and some plastic substrates.

Encapsulation for electronic component.

Potting for waterproof..

Reinforce of electronic joint parts and chip.

PHYSICAL PROPERTIES

Color	Clear / ambe
Viscosity[cp, 25] mixed	d. 8,500
Specific Gravity, gm/cc	1.18
Mix rate, by volume	1:1

CURE CONDITIONS

Working time	3 min.
Fixture time	5 min.
Tack free time (50grams,25)	7~10 min.
Full cure time (50grams,25)	24 hours

CURED PERFORMANCE

Shear Strength (ASTM D-4501)	3050 psi	
- Steel to steel, gap 0.03mm	0000 poi	
Service temperature	-45 ~150	
Shore Hardness	Shore D62	
Elongation at tear [%]	38%	
Water absorption	0.68%	
Coefficient of elongation (ppm/)	85	
Chemical Resistance	Excellent	
Shrinkage / linear	Approx. 1.8	
Surface resistance [] (ASTM D149)	1.9x108	

Dielectric strength [kV/m]

29.2

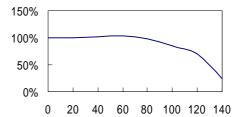
MECHANICAL STRENGTH

Cure at 23 for 30min. Controlled bonding gap 0.05 mm, substrates Abraded and wiped by IPA, Shear Strength Test on 48 hours after bonding.

Joint part Material	Shear strength
Aluminum alloy	18~22 N/mm ²
Steel	19~22 N/mm ²
Stainless steel	16~18 N/mm ²
Zine plated steel	17~19 N/mm ²
Brass	21~23 N/mm ²
Glass	*12~14 N/mm ²
FR4	19~23 N/mm ²
ABS, IPA wipe	6~8 N/mm ²
PC (Polycarbonate, IPA wipe)	6~8 N/mm ²
PVC, IPA wipe	6~8 N/mm ²
(*) · substrate broken	

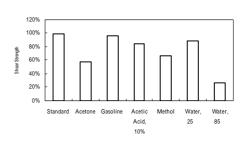
HOT STRENGTH TEST -TEMPERATURE RESISTANCE

Joint parts material: Aluminum to aluminum. Gap 0.05mm Shear strength test at 25 after 48 hours



Chemical Resistance Data

Soap with chemical 2 weeks. (material: Aluminum alloy 1.5mm thk.)



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ENVIRONMENTAL TOLERANCE

Percent of Original Strength Retained (Glass to Glass)

ENVIRONMENT	RETAINED [% PSI]	CONDITIONS
Dry Heat	100	95 , 2 weeks
Wet Heat	87	45 , 95% RH, 1 week
Boiling Water	100	2 hours
Water Immersion 90%	100	25 ,, 1 week
Isopropanol Immersion	100	25 , 24 Hours

DIRECTION OF USE

MIXING

Use Applicator - used with a static mix nozzle, the epoxy can be dispensed, metered, mixed, and directly applied to the surfaces being bonded. Bleeding of air bubbles is always recommended with static mix nozzles.

APPLICATION

Apply mixed adhesive directly to one surface or as a bead. Assemble with the mating part within the recommended working time. Obtain firm contact between the parts to minimize any gap and ensure good contact of the adhesive to each mating surface. A small fillet of adhesive should flow out of the edges to show adequate gap-filling. Apply epoxy to both surfaces and spread to cover the entire area for large gaps or make a bead pattern on both sides, which will allow flow throughout the bond line.

STORAGE

Store in dry cool location. Keep away from heat source. Maximum shelf-life can be expected when stored at room temperature (23) in their original containers. Shelf life: 2 years.

PACKAGE

50ml dual cartridge

WARNING

Avoid contact with skin and eyes. Wash skin with soap and water. Clean up any spills with lacquer thinner.

NOTE

The data herein are furnished for information only and are believed and reliable. We cannot assume liability or responsibility for results obtained in the use of its products by persons whose methods are outside or beyond our control. It is the users responsibility to determine the suitability of any of the products and methods of use or preparation prior to use mentioned in out literature and furthermore the users responsibility to observe and adopt such precautions as may be advisable for the protection of personnel and property in the handling and use of any of our products.

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