

125-01A/B-187

ANISOTROPICALLY CONDUCTIVE, SNAP CURE, EPOXY DIE ATTACH ADHESIVE

DESCRIPTION

125-01A/B-187 is a two-component syringe dispensable, anisotropically conductive, epoxy coating and adhesive. This system features excellent thermal stability, outstanding chemical resistance and excellent high temperature properties. Applications for 125-01A/B-187 include, but are not limited to, conductive splicing of ribbon cables, electrical attachment of surface mounted devices and bonding of flex circuits to PC boards and electroluminescent panels. This product is useful in application where shorts between closely spaced contacts are a concern. This system features excellent thermal stability.

UNIQUE FEATURES

- * Excellent Electrical Conductivity
- * Outstanding Dispensability
- * Excellent Adhesion
- * Excellent High Temperature Performance
- * Excellent Chemical Resistance
- * Low Ionics

IONIC CONTENT

Chloride	<10ppm
Sodium	<10ppm
Potassium	<10ppm
<i>(Typical properties are not intended to be used as specification limits)</i>	

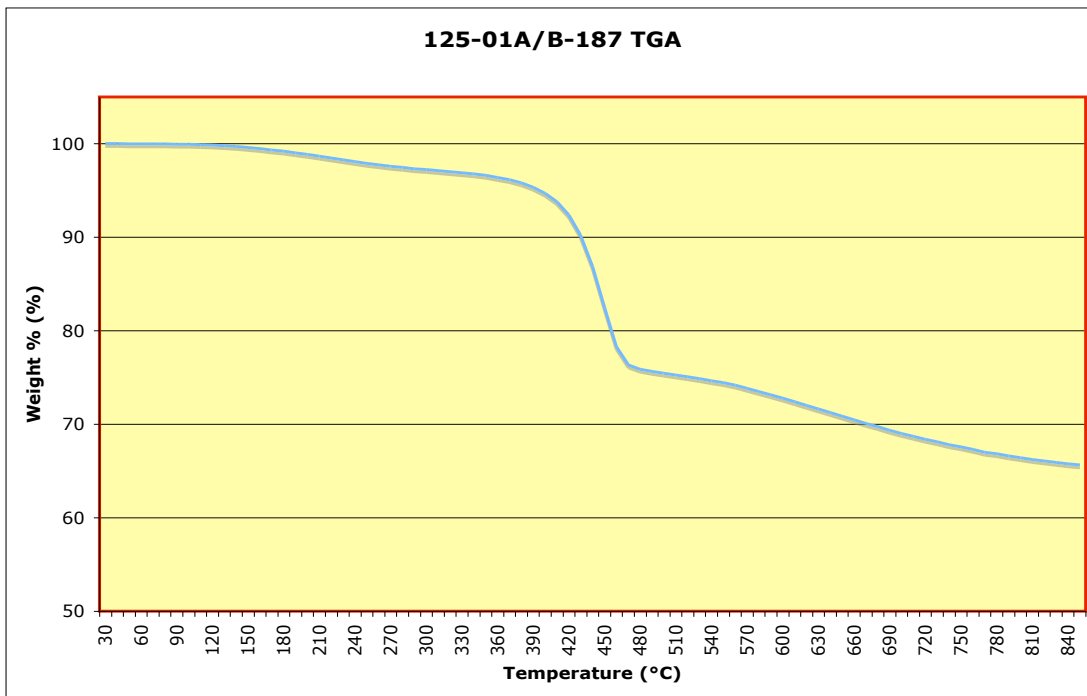
TYPICAL UNCURED PROPERTIES

Property	Value	Units
Viscosity – Brookfield HAT Viscometer @ 10 rpm @ 25° C	20,000	cps
Specific Gravity	1.19	water = 1
Filler	Silver	N/A
Percent Silver (cured)	<5	%
Theoretical Coverage @ 0.001" Wet Thickness	25	in ² /gram
Solids	71	%
Color	Brown	N/A

TYPICAL CURED PROPERTIES

Property	Value	Units
Operating Temperature	-55 to +230	°C
Peak Temperature	325	°C
Volume Resistivity	0.001	Ω - cm
Z-axis		
X and Y axis	1 x 10 ¹²	Ω - cm
Glass transition Temperature – Tg	100	°C
Coefficient of Thermal Expansion	50	ppm/° C
T-Shear Strength	2100	Psi
Weight Loss @ 300° C, TGA	2.77	%
Differential Scanning Calorimetry (DSC)		
Peak Tc	168	°C
Δ Hc	-33.4	J/g

TYPICAL CURED PROPERTIES – cont.



CURING GUIDELINES

Temperature (°C)	Time (sec.)
175	22 - 25
200	14 - 18
210	4 - 6

These temperatures and times are presented as a guide only. The curing times are after substrate has been brought up to temperature. The end-user is encouraged to experiment to determine optimum curing schedule.

HANDLING AND STORAGE

Prior to using, mix thoroughly to re-suspend fillers. If needed, 125-01A/B-187 can be thinned with small amounts of Creative Materials' 102-03 thinner. Thinning should be done after mixing parts A and B to maintain proper mixing ratio.

SHELF LIFE

125-01 Part A	B-187
1 year @ ambient temperatures	1 year @ ambient temperatures

MIX RATIO (by weight)

125-01 Part A	B-187	Pot life:
100	8.5	4 hours

BONDING PROCEDURE

To use, carefully align parts to be bonded, apply uniform pressure to maintain location. Follow curing guidelines given above. Timing should start once adhesive and substrate reach curing temperature.

HEALTH AND SAFETY

Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin

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