

Tra-Con Supertherm 826M01 High Performance Diamond Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy , Thermally Conductive , Filled/Reinforced Thermoset

Material Notes:

SUPERTHERM 826M01 is a one-part, smooth paste ULTRA HIGH THERMALLY CONDUCTIVE diamond filled epoxy adhesive recommended for semiconductor die-attach and other micro-electronic applications where the combination of very high thermal conductivity coupled with good electrical insulation over a wide temperature range is required. It develops good adhesion, after a REQUIRED high temperature cure cycle, to and between many different semiconductor substrates, metals, glass, ceramics and laminates. SUPERTHERM 826M01 has a long pot life at 25°C and a shelf life of 6 months when stored at -40°C. It provides both enhanced thermal conductivity and good electrical isolation for active or passive chip-type electronic or surface mounted components in printed, integrated and hybrid circuits, and is ideal for screen, dispenser or pin transfer and application methods. This adhesive complies with the requirements of NASA Outgassing Specification. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Supertherm-826M01-High-Performance-Diamond-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.55 g/cc	2.55 g/cc	Cured
Viscosity	110000 cP	110000 cP	Mixed (cp #52, 5 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	15 min @ 150°C
Adhesive Bond Strength	11.0 MPa	1600 psi	Lap shear, alum to alum, 1 hr @ 150°C

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	Alpha 1; TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	72.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	40.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	Alpha 2; TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	2.30 W/m-K	16.0 BTU-in/hr-ft ² -°F	ASTM E1461
Glass Transition Temp, Tg	105 °C	221 °F	Ultimate Tg; TMA

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	30.0 min	0.500 hour	

Processing Properties	@Temperature 120 °C Metric	@Temperature 248 °F English	Comments
	60.0 min	1.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	120 min	2.00 hour	
	@Temperature 80.0 °C	@Temperature 176 °F	
Pot Life	1440 min	1440 min	(1 day)
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Gray	
Outgassing, NASA, %CVCM	0.01	
Outgassing, NASA, %TWL	0.17	

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