

Tra-Con Tra-Duct 2958 Snap Cure Conductive Silver Epoxy Adhesive

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

Material Notes:

TRA-DUCT 2958 is a two-part, smooth paste of specially refined and processed epoxy and silver components, recommended for electronic, microelectronic and die-attach bonding and sealing applications that require superior electrical and mechanical properties. It has a long pot life, and is free of contaminating solvents and additives, and develops strong durable, void-free, electrically and thermally conducting bonds, seals and coatings -- after a REQUIRED high temperature cure cycle -- to and between many different electronic substrates. TRA-DUCT 2958 is ideal for chip bonding, electrical modules, printed circuit, wave guides, high frequency shields, and for other manufacturing operations, using screen printing, or machine dispensing through small (from 0.006 inch up) tips. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Duct-2958-Snap-Cure-Conductive-Silver-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.65 g/cc	2.65 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	40000 cP @Temperature 25.0 °C	40000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Adhesive Bond Strength	6.89 MPa	1000 psi	Lap shear, alum to alum, 2 min @ 150°C
	6.89 MPa	1000 psi	Lap shear, alum to alum, 5 min @ 125°C

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	27.2 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	175 °C	347 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	92.0 °C	198 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.00030 ohm-cm	0.00030 ohm-cm	cured 5 min @ 125°C

Electrical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	2.00 min	0.0333 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	5.00 min	0.0833 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	15.0 min	0.250 hour	
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	240 min	240 min	

Descriptive Properties	Value	Comments
Color	Silver	
Mix Ratio, parts by weight	100/6	Resin/Hardener
Thixotropic Index	2.9	5 rpm/50 rpm

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