

Tra-Con Tra-Duct 2705 Room Temperature Conductive Nickel Epoxy Adhesive

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

Material Notes:

TRA-DUCT 2705 is an electrically conductive nickel filled epoxy adhesive recommended for electronic bonding, sealing, and EMI-RFI shielding applications. This two-part smooth paste formulation is free of solvents, silver, copper or carbon additives, and is a low-cost replacement for many gold or silver based products. TRA-DUCT 2705 cures at room temperature and can be used as a "cold solder" for bonding and shielding heat sensitive components. TRA-DUCT 2705 is recommended for use where exposure to salt water causes silver based systems to corrode. It develops strong, durable bonds to substrates such as metal ceramic glass and plastic laminates. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Duct-2705-Room-Temperature-Conductive-Nickel-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.20 g/cc	3.20 g/cc	Mixed
Viscosity	47500 cP @Temperature 25.0 °C	47500 cP @Temperature 77.0 °F	Resin (cp #52, 10 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	1 hr @ 70°C
Adhesive Bond Strength	6.89 MPa	1000 psi	Lap shear, alum to alum, 1 hr @ 70°C

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.40 W/m-K	9.72 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	130 °C	266 °F	
Minimum Service Temperature, Air	-54.0 °C	-65.2 °F	
Glass Transition Temp, Tg	78.0 °C	172 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.0060 ohm-cm	0.0060 ohm-cm	cured 1 hr @ 70°C

Processing Properties	Metric	English	Comments
Cure Time	60.0 min @Temperature 70.0 °C	1.00 hour @Temperature 158 °F	
	1440 min	24.0 hour	

Processing Properties	@Temperature 25.0 °C Metric	@Temperature 77.0 °F English	Comments
Descriptive Properties	Value		Comments
Color	Clear		Hardener
	Dark Gray		Resin/Mixed/Cured
Mix Ratio, parts by weight	100/5		Resin/Hardener
Thixotropic Index	3.9		1 rpm/10 rpm
Working Life minutes	40		10 grams

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