

## Tra-Con Tra-Bond 2156 Heat Conductive Electrically Insulating Compound

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy, Thermally Conductive

### Material Notes:

TRA-BOND 2156 is a thixotropic (smooth paste) thermally conductive epoxy system. It is used for staking heat sinks, transistors, diodes, resistor, integrated circuits and other heat-sensitive components to printed circuit boards. This two-part adhesive develops strong, durable, high- impact bonds at room temperature that improve heat transfer while maintaining electrical insulation. TRA-BOND 2156 bonds readily to itself and to metals, silica, steatite, alumina, sapphire and other ceramics, glass, plastics and to many other materials, and its coefficient of thermal expansion provides a good match for those materials over a fairly wide temperature range. Fully cured TRA-BOND 2156 provides excellent resistance to salt solutions, mild acids and alkalis, and many other chemicals including petroleum solvents, lubricating oils, and alcohol. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-2156-Heat-Conductive-Electrically-Insulating-Compound.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2156-Heat-Conductive-Electrically-Insulating-Compound.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.30 g/cc	2.30 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Viscosity	12000 cP @Temperature 25.0 °C	12000 cP @Temperature 77.0 °F	After mixing

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Adhesive Bond Strength	23.4 MPa	3400 psi	Lap shear, alum to alum, 2 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	26.0 µm/m-°C @Temperature 20.0 °C	14.4 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.840 W/m-K	5.83 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	33.0 °C	91.4 °F	Ultimate Tg

Processing Properties	Metric	English	Comments
Cure Time	180 min	3.00 hour	1 hr @ 25°C + 2 hrs @ 65°C
	1440 min	24.0 hour	

Processing Properties	Metric @ Temperature 25.0 °C	English @ Temperature 77.0 °F	Comments
Pot Life	5.0 min	5.0 min	

Descriptive Properties	Value	Comments
Color	Tan	
Mix Ratio, parts by weight	100/23	Resin/Hardener

## Contact Songhan Plastic Technology Co.,Ltd.

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