

## Tra-Con Tra-Cast 3135 Low Viscosity Encapsulant

Category : Polymer , Adhesive , Thermoset

### Material Notes:

TRA-CAST 3135 is a low viscosity adhesive developed for demanding electronic underfill and encapsulant adhesive applications. This solvent free material is readily mixed, and cured at room temperature to develop strong bonds to metals, ceramics, glass and many plastics. It can be used in conjunction with TRA-BOND 216D02 to perform `dam` and `fill` functions. Fully cured TRA-CAST 3135 is an excellent electrical insulator and provides resistance to water, gases, acids, alkalis and salt solutions. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Cast-3135-Low-Viscosity-Encapsulant.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Cast-3135-Low-Viscosity-Encapsulant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	
Viscosity	6450 cP @Temperature 25.0 °C	6450 cP @Temperature 77.0 °F	Mixed (lv #4, 12 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92	92	
Adhesive Bond Strength	13.4 MPa	1950 psi	Lap shear, alum to alum, 4 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	51.4 µm/m-°C	28.6 µin/in-°F	Below Tg
	197 µm/m-°C	109 µin/in-°F	Above Tg
Maximum Service Temperature, Air	145 °C	293 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Glass Transition Temp, Tg	65.0 °C	149 °F	Ultimate Tg

Processing Properties	Metric	English	Comments
Cure Time	240 min @Temperature 65.0 °C	4.00 hour @Temperature 149 °F	
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	80 min	80 min	25 grams

Descriptive Properties	Value	Comments
Color	Black	
Mix Ratio, parts by weight	100/98	Resin/Hardener

## Contact Songhan Plastic Technology Co.,Ltd.

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