

## Tra-Con Tra-Bond Ablebond 933-1.5 Moisture Resistant Encapsulant

Category : Polymer , Thermoset , Epoxy , Filled/Reinforced Thermoset

### Material Notes:

TRA-BOND 933-1.5 electrically insulating epoxy encapsulant is formulated to provide a smooth crown over the device of wire bonds. This encapsulant provides protection from thermal and mechanical shock. The long work life and smooth consistency of TRA-BOND 933-1.5 encapsulant make it ideal for use in automatic dispensers. This compound is stable at room temperature for up to three (3) months; however since the filler may settle, we recommend storage at -40°C or colder. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-Ablebond-933-15-Moisture-Resistant-Encapsulant.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-Ablebond-933-15-Moisture-Resistant-Encapsulant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	Mixed
Viscosity	10000 cP	10000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	

Thermal Properties	Metric	English	Comments
CTE, linear	47.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	26.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	Below Tg
	150 $\mu\text{m}/\text{m}\cdot\text{°C}$	83.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	Above Tg
Thermal Conductivity	0.400 W/m-K @Temperature 121 °C	2.78 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 250 °F	
Glass Transition Temp, Tg	109 °C	228 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.30e+14 ohm-cm	5.30e+14 ohm-cm	
Dielectric Constant	3.8	3.8	
Dielectric Strength	59.1 kV/mm	1500 kV/in	
Dissipation Factor	0.0070	0.0070	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	15 ppm	15 ppm	
Ionic Impurities - K (Potassium)	1.0 ppm	1.0 ppm	

Ionic Impurities - Cl (Chloride) Chemical Properties	380 ppm Metric	380 ppm English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	120 min	2.00 hour	
	@Temperature 125 °C	@Temperature 257 °F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Color	Black	
Weight Loss %	1.7	At 300°C
Working Life, months	3	At 25°C

## Contact Songhan Plastic Technology Co.,Ltd.

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