

## Tra-Con Tra-Bond 526W01 Microelectronics Grade Encapsulant

Category : Polymer , Thermoset

### Material Notes:

TRA-BOND 526W01 is a one component micro-electronics grade controlled flow encapsulant designed to protect wire bonds and bare die.

TRA-BOND 526W01 has a low coefficient of thermal expansion and low shrinkage upon cure providing low stress. TRA-BOND 526W01 is a humidity resistant encapsulant capable of withstanding multiple reflow exposures to 260°C. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-526W01-Microelectronics-Grade-Encapsulant.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-526W01-Microelectronics-Grade-Encapsulant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	Cured
Viscosity	300000 cP @Temperature 25.0 °C	300000 cP @Temperature 77.0 °F	Mixed (cp #52, 1 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92	92	
Adhesive Bond Strength	5.52 MPa	800 psi	Lap shear, gold to gold, 45 min @ 150°C
	6.21 MPa	900 psi	Lap shear, alum to alum, 45 min @ 150°C

Thermal Properties	Metric	English	Comments
CTE, linear	19.0 µm/m-°C @Temperature -40.0 - 100 °C	10.6 µin/in-°F @Temperature -40.0 - 212 °F	Alpha 1; TMA
	68.0 µm/m-°C @Temperature 150 - 220 °C	37.8 µin/in-°F @Temperature 302 - 428 °F	Alpha 2; TMA
Maximum Service Temperature, Air	260 °C	500 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	
Glass Transition Temp, Tg	130 °C	266 °F	Ultimate Tg; TMA

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	<= 10 ppm	<= 10 ppm	
Ionic Impurities - K (Potassium)	<= 10 ppm	<= 10 ppm	

Ionic Impurities - Cl (Chloride) Chemical Properties	≤ 25 ppm Metric	≤ 25 ppm English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	75.0 min	1.25 hour	30 min @ 100-120°C + 45 min @ 150°C
	45.0 min @Temperature 150 °C	0.750 hour @Temperature 302 °F	
Pot Life	1440 min @Temperature 25.0 °C	1440 min @Temperature 77.0 °F	(1 day), 0.6 grams

Descriptive Properties	Value	Comments
Color	Black	
Flow, mm	15.5	0.6 grams @ 120°C
Ionic Impurities - Ammonium	<10 ppm	
Ionic Impurities - Bromide	<10 ppm	
Ionic Impurities - Fluoride	<10 ppm	
Ionic Impurities - Magnesium	<10 ppm	
Ionic Impurities - Phosphate	<10 ppm	
Ionic Impurities - Sulfate	<10 ppm	

## Contact Songhan Plastic Technology Co.,Ltd.

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