

## Tra-Con Tra-Bond 716C01 Medium Viscosity Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

TRA-BOND 716C01 is a medium viscosity epoxy resin system specifically developed for bonding and coating applications. This two-part amber adhesive is easily mixed, used and cured at room temperature for bonding, laminating and repair applications by manufacturers of food preparation, processing and packaging equipment, and by manufacturers of catheters, hearing aids, dental products and other biomedical instruments and devices. TRA-BOND 716C01 is an effective electrical insulator, and it provides low permeability to gases and vapors and good resistance to water, weather, galvanic action, to petroleum solvents, lubricants and fuels, to mild acids and alkalis, and to many other organic and inorganic compounds. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-716C01-Medium-Viscosity-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-716C01-Medium-Viscosity-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	Mixed
Solids Content	100 %	100 %	Reactive Solids Content
Volatile Organic Compounds (VOC) Content	0.19 g/l	0.19 g/l	
Water Absorption	0.83 %	0.83 %	After 24 hours
Viscosity	17500 cP @Temperature 25.0 °C	17500 cP @Temperature 77.0 °F	Mixed (lv #4, 12 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Elongation at Yield	9.0 %	9.0 %	
Adhesive Bond Strength	12.4 MPa	1800 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	24.1 MPa	3500 psi	Lap shear, alum to alum, 4 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	29.4 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	145 °C	293 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	57.0 °C	135 °F	Ultimate Tg

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+14 ohm-cm	1.20e+14 ohm-cm	
Dielectric Constant	3.4 @Frequency 1000 Hz	3.4 @Frequency 1000 Hz	
Dielectric Strength	16.5 kV/mm	420 kV/in	
Dissipation Factor	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 240 min @Temperature 65.0 °C	1.00 - 4.00 hour @Temperature 149 °F	
	4320 min @Temperature 25.0 °C	72.0 hour @Temperature 77.0 °F	
Pot Life	50 min	50 min	25 grams

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

## Contact Songhan Plastic Technology Co.,Ltd.

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