

## Tra-Con Tra-Bond FS12 Fast Cure Epoxy Adhesive System

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

TRA-BOND FS12 is an epoxy resin formulation developed for room temperature bonding applications where a fast cure epoxy adhesive is needed. This effective epoxy formulation consists of 100% reactive materials (contains no solvents) and it is recommended for structural and electric repairs, traffic bar and reflector bonding, gel coats, and for similar field kit applications where the combination of fast cure with superior physical properties is required. TRA-BOND FS12 readily bonds to itself and to most metals, glass, wood ceramics, many plastics, and other materials. The fully cured adhesive is an electrical insulator, and in addition provides excellent resistance to weather, water, gases, petroleum solvents and fuels, salt solutions, mild acids and alkalis, and 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-FS12-Fast-Cure-Epoxy-Adhesive-System.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FS12-Fast-Cure-Epoxy-Adhesive-System.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	
Compressive Strength	70.3 MPa	10200 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	110 °C	230 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.20e+14 ohm-cm	4.20e+14 ohm-cm	
Dielectric Constant	4.27	4.27	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.030	0.030	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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

Processing Properties	Metric 2800 min	English 46.0 hour	Comments
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	5.0 min	5.0 min	

Descriptive Properties	Value	Comments
Color	Amber	
Heat Distortion Temperature °C	77	

## Contact Songhan Plastic Technology Co.,Ltd.

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