

## Tra-Con Tra-Bond FS469 Clear High Strength Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy

### Material Notes:

TRA-BOND FS469 is a clear low viscosity epoxy formulation designed for bonding and coating micro-electronics, laminations, optical components and laser assemblies. The low cure shrinkage (using a room temperature cure) makes TRA-BOND FS469 an excellent choice to utilize in critical optic applications where alignment accuracy is essential. This high strength system is used for laminating glass and rigid plastics or bonding metals and ceramics. TRA-BOND FS469 offers superior resistance to mechanical shock and temperature cycling. It can also be used in temperature cycling applications where minimal stress is required. Information provided by Tra-Con Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tra-Con-Tra-Bond-FS469-Clear-High-Strength-Epoxy.php](http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-FS469-Clear-High-Strength-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	Mixed
Volatile Organic Compounds (VOC) Content	12.93 g/l	12.93 g/l	
Water Absorption	0.86 %	0.86 %	After 24 hours
Viscosity	300 cP @Temperature 25.0 °C	300 cP @Temperature 77.0 °F	Mixed (sp #4, 30 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	24 hrs @ 25°C
	80	80	4 hrs @ 65°C
Adhesive Bond Strength	11.0 MPa	1600 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	18.6 MPa	2700 psi	Lap shear, alum to alum, 4 hrs @ 65°C

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	40.0 °C	104 °F	Ultimate Tg

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Processing Properties	Metric	English	Comments
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Processing Properties Cure Time	Metric 240 min	English 4.00 hour	Comments
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	120 min	120 min	25 grams

Descriptive Properties	Value	Comments
Color	Clear	
Mix Ratio, parts by weight	100/30	Resin/Hardener

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China