

Tra-Con Tra-Bond 516H01 Low Viscosity Room Temperature Cure Adhesive

Category : Polymer , Adhesive , Thermoset

Material Notes:

TRA-BOND 516H01 is a room temperature curing, low viscosity adhesive formulated for terminating ALL TYPES of fiber optic connectors, including Pre-Mixed and Frozen applications. It has also been used for bonding LED displays, lenses and other optical components. TRA-BOND 516H01 provides both high bond strength as well as low stress connections with no pistoning. TRA-BOND 516H01 is provided in a dark blue color to allow easy polishing. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-516H01-Low-Viscosity-Room-Temperature-Cure-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	450 cP	450 cP	Mixed (cp #40, 10 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	1 hr @ 65°C
	71	71	24 hrs @ 25°C
	75	75	4 hrs @ 65°C
	75	75	72 hrs @ 25°C
Adhesive Bond Strength	5.03 MPa	730 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	8.76 MPa	1270 psi	Lap shear, alum to alum, 72 hrs @ 25°C
	9.51 MPa	1380 psi	Lap shear, alum to alum, 1 hr @ 65°C
	20.3 MPa	2950 psi	Lap shear, alum to alum, 4 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	67.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	37.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	Below Tg
	212 $\mu\text{m}/\text{m}\cdot\text{°C}$	118 $\mu\text{in}/\text{in}\cdot\text{°F}$	Above Tg
Glass Transition Temp, Tg	49.0 °C	120 °F	Ultimate Tg; TMA

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 240 min	1.00 - 4.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 - 4320 min	24.0 - 72.0 hour	

Processing Properties	@Temperature 25.0 °C Metric	@Temperature 77.0 °F English	Comments
Descriptive Properties	Value		Comments
Color	Clear		Resin
	Dark Blue		Hardener/Mixed/Cured

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