

Tra-Con Tra-Bond 2119 Low Viscosity Glass Laminating Adhesive

Category : Polymer , Adhesive , Thermoset

Material Notes:

TRA-BOND 2119 is a crystal clear adhesive specifically designed for bonding glass to glass and glass to plastics. It also yields a high lap shear strength to metals and ceramics. This system cures to a semi-rigid hardness making it ideal for bonding dissimilar substrates especially when thermal cycling is required. This two part adhesive also has a low exotherm and therefore can be used for small pottings and filling bond gaps up to 1/8 inch. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2119-Low-Viscosity-Glass-Laminating-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	Mixed
Volatile Organic Compounds (VOC) Content	87.7 g/l	87.7 g/l	
Water Absorption	0.49 %	0.49 %	After 24 hours
Viscosity	500 cP @Temperature 25.0 °C	500 cP @Temperature 77.0 °F	Mixed (sp #4, 12 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	24 hrs @ 25°C
	79	79	1 hr @ 65°C
	80	80	2 hrs @ 65°C
Adhesive Bond Strength	12.1 MPa	1750 psi	Lap shear, alum to alum, 24 hrs @ 25°C
	15.9 MPa	2300 psi	Lap shear, alum to alum, 1 hr @ 65°C
	18.3 MPa	2650 psi	Lap shear, alum to alum, 2 hrs @ 65°C

Thermal Properties	Metric	English	Comments
CTE, linear	88.8 µm/m-°C	49.3 µin/in-°F	Below Tg
	241 µm/m-°C	134 µin/in-°F	Above Tg
Glass Transition Temp, Tg	95.0 °C	203 °F	Ultimate Tg

Optical Properties	Metric	English	Comments
Refractive Index	1.53	1.53	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	45 min	45 min	25 grams

Descriptive Properties	Value	Comments
Color	Clear	
Thixotropic Index	1	6 rpm/60 rpm
Working Life hours	2	25 grams

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