

Tra-Con Tra-Bond 5126 Medium Viscosity Aerospace-Grade Epoxy Adhesive

Category: Polymer, Adhesive, Thermoset, Epoxy

Material Notes:

TRA-BOND 5126 AEROSPACE-GRADE EPOXY ADHESIVE is a two-part, clear (amber), medium viscosity, aerospace-grade epoxy adhesive system recommended for bonding a wide variety of materials for structural and non-structural applications where good wetting, toughness and superior mechanical properties are required. This high performance adhesive is mixed and used at room temperature, contains no solvents, and may be applied by brush, trowel, roller coating or silk screening. TRA-BOND 5126 is used for bonding thermally ablative insulation materials to aerodynamic surfaces and meets the Boeing Material Specification BMS 5-126 and similar specifications of other major aerospace manufacturers for high strength, high reliability bonds to many surfaces including phenolic plastics, polyester and epoxy laminates, glass and glass fabrics, hardboard, and to most metal surfaces. Fully cured TRA-BOND 5126 is a tough, durable, dimensionally stable electrical insulator with good low temperature, mechanical, thermal shock, and impact resistance properties coupled with excellent resistance to gases and vapors, petroleum products, solvents and lubricants, water, weather, salt water and 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-5126-Medium-Viscosity-Aerospace-Grade-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments	
Specific Gravity	1.12 g/cc	1.12 g/cc	Mixed	
Solids Content	100 %	100 %	Reactive Solids Content	
Viscosity	3050 cP	3050 cP	After mixing	
	@Temperature 25.0 °C	@Temperature 77.0 °F		

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Tensile Strength, Yield	35.9 MPa	5200 psi	
Elongation at Yield	8.0 %	8.0 %	
Adhesive Bond Strength	9.65 MPa	1400 psi	Lap shear, alum to alum, 7 days in water
	12.4 MPa	1800 psi	Lap shear, alum to alum, 7 days in JP4 fuel
	19.3 MPa	2800 psi	Lap shear, alum to alum
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	

Thermal Properties	Metric	English	Comments	
Maximum Service Temperature, Air	115 °C	239 °F		



Minimum Service Temperature, Air Thermal Properties	-60.0 °C Metric	-76 0 °F English	Comments	
Glass Transition Temp, Tg	63.0 °C	145 °F	Ultimate Tg	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.50e+13 ohm-cm	6.50e+13 ohm-cm	
Dielectric Constant	3.35	3.35	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.7 kV/mm	425 kV/in	
Dissipation Factor	0.010	0.010	
Dissipation i actor	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	240 min	4.00 hour	
Cure Time	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	40 min	40 min	

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

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