

Master Bond EP21TDCF-3 Two Component, Higher Viscosity Epoxy System

Category : Polymer , Thermoset , Epoxy , Epoxy Encapsulant, Unreinforced

Material Notes:

Product Description: Master Bond EP21TDCF-3 is a two component epoxy for high performance bonding and sealing. It is formulated to cure rapidly at room temperature or faster at elevated temperatures. It has a non-critical mix ratio of one to one by weight or volume. The faster cure allows for a shortened fixture time. Once cured, EP21TDCF-3 has excellent toughness. This gives the system outstanding mechanical shock resistance along with superior thermal cycling capabilities—even when bonding dissimilar substrates. It has a good blend of physical properties including high shear and peel strengths. It bonds well to a wide variety of substrates, including metals, glass, ceramics and many rubbers and plastics. EP21TDCF-3 has the ability to withstand an array of chemicals, including water, fuels and oils, over the service temperature range of -100°F to +250°F. It is 100% reactive without any solvents or diluents. The hardened adhesive is an excellent electrical insulator. The color of Part A is gray and Part B is amber. EP21TDCF-3 is a versatile, exceptionally strong, user friendly system that is widely used in the OEM, aerospace, electronic, electrical and related industries. **Product Advantages:** Convenient mixing: non-critical equal weight or volume ratio. Easy application, higher viscosity, thixotropic system. Rapid curing at room temperature; shorter fixturing time. Bonds well to a variety of substrates. Noteworthy resistance to vibration, shock and thermal cycling. Superior shear and peel strengths. Good chemical resistance to water, fuels and oils. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP21TDCF-3-Two-Component-Higher-Viscosity-Epoxy-System.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50 - 55	50 - 55	
Tensile Strength at Break	51.7 MPa @Temperature 23.9 °C	7500 psi @Temperature 75.0 °F	
Tensile Modulus	1.72 - 2.07 GPa @Temperature 23.9 °C	250 - 300 ksi @Temperature 75.0 °F	
Shear Strength	>= 13.8 MPa	>= 2000 psi	Al/Al, Bond
Peel Strength	6.14 kN/m	35.0 pli	T-peel

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Constant	3.8 @Frequency 60.0 Hz,	3.8 @Frequency 60.0 Hz,	

Electrical Properties	Temperature 25.0 °C Metric	Temperature 77.0 °F English	Comments
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Processing Properties	Metric	English	Comments
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Cure Time	60.0 - 120 min	1.00 - 2.00 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	60.0 - 120 min	1.00 - 2.00 hour	
	@Temperature 93.3 °C	@Temperature 200 °F	
Pot Life	15 - 25 min	15 - 25 min	100 gram mass
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 23.9 °C	@Temperature 75.0 °F	in unopened containers

Descriptive Properties	Value	Comments
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Mixing Ratio (A to B)	1:1	by weight or volume
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