

Master Bond Super Gel 9AOND Dimensionally Stable Urethane Modified Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Master Bond Super Gel 9AOND is a two component, urethane modified epoxy system that cures at room temperature and has a paste-like consistency. It offers softness and retains dimensional stability. It possesses thermal conductivity and very good electrical insulation values. Its softness optimizes the ability to retrieve components if needed. This can be accomplished with a sharp knife or razor blade. It has great handling properties: an easy to use two to one mix ratio by weight, good flow and a long working life. It has very low exotherm enabling it to cure many inches in depth if needed. Its hardness is very low, about 20-30 Shore A. The combination of its easy handling and cured properties enables this versatile system to be used in a variety of applications, especially the sealing of sensitive electronic parts and related components. It is particularly useful in those applications where softness and thermal conductivity are desirable. One specialty use for Super Gel 9AOND is for situations where the dampening of energy is required. The softness allows it to be easily repairable and confers it with thermal cycling and thermal and mechanical shock resistance. Super Gel 9AOND bonds well to an array of substrates, such as metals, glass, ceramics and many rubbers and plastics. It has a long working life of 6-8 hours depending on the mass that is mixed (the smaller the mass, the longer the working life). It has very good chemical resistance to water, oils and fuels. The color of both Parts A and B are light gray. After mixing, Super Gel 9AOND is a thicker paste with non-drip application properties. This multi-functional system is widely used in the aerospace, electronic, optical, electro-optical and other specialty industries where the unique blend of properties is needed. Product Advantages: Easy handling; two to one mix ratio by weight or volume; non-drip consistency Very low exotherm; long working life Great softness and resilience, yet solid dimensional stability Easily repairable; widely used for retrieving components Often used in conjunction with sensitive electronic components or when dampening is needed Excellent thermal conductivity and electrical insulation properties Key Features Great for bonding and sealing Convenient handling & curing at room temperature Strong electrical insulation properties Cures to a low Shore A hardness High thermal conductivity Relatively easy to remove Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-Super-Gel-9AOND-Dimensionally-Stable-Urethane-Modified-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.14 g/cc	2.14 g/cc	Part B
	2.16 g/cc	2.16 g/cc	Part A

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 1.38 MPa	>= 200 psi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.44 - 1.59 W/m-K	10.0 - 11.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	93.3 °C	200 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Dielectric Constant	4.5	4.5	
	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	
Dielectric Strength	≥ 15.7 kV/mm	≥ 400 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Cure Time	240 - 420 min	4.00 - 7.00 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	360 - 480 min	6.00 - 8.00 hour	for 48 hrs, plus 140-150°F
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	360 - 480 min	360 - 480 min	200 gram batch
	420 - 540 min	420 - 540 min	100 gram batch
Shelf Life	6.00 Month	6.00 Month	in original unopened container
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	2:1	by weight or volume

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