

Master Bond Supreme 3AN One Component, Heat Curing Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Description: Master Bond Polymer System SUPREME 3AN is a one component, heat cured epoxy adhesive and sealant, featuring high peel and shear strength along with excellent thermal conductivity and convenient handling. SUPREME 3AN cures readily at 250°F in 20-30 minutes; and at 300°F in 5-10 minutes. Minimum curing temperature is 235°F. Being a one part system, no mixing is required and the working life is unlimited as it never cures at room temperature. The shelf life is 6 months in original closed containers. Master Bond Polymer Adhesive SUPREME 3AN produces remarkably good bonds with both high shear and high peel strength for service over a wide temperature range of -100°F to +250°F. It offers very superior resistance to impact, thermal shock, vibration and stress fatigue cracking while maintaining the moisture, creep, corrosion and heat resistance typical of epoxy resin adhesives. Master Bond Adhesive SUPREME 3AN can be applied without sagging or dripping even on vertical surfaces. It is 100% reactive and does not contain any diluents or solvents. SUPREME 3AN forms high strength and exceptionally tough bonds which are remarkably resistant to severe thermal cycling and many chemicals including water, oil, fuels, and most organic solvents even upon prolonged exposures. Adhesion to metals, glass, ceramics, wood vulcanized rubbers and many plastics is excellent. The hardened adhesive has outstanding thermal conductivity and is also a superior electrical insulator. It is widely used in aerospace, electronic, electrical, computer, automotive and chemical applications especially where convenient handling and rapid curing along with outstanding physical properties all are of critical importance. Product Advantages: Single component system; no mixing needed prior to application. Ease of application; non drip application feature. Versatile and rapid cure schedules; as fast as 5-10 minutes at 300°F or 20-30 minutes at 250°F. High shear and peel strength to similar and dissimilar substrates over the remarkable wide temperature range of -100°F to +250°F. Good electrical insulating properties and chemical resistance. Superior resistance to thermal shock, impacts and stress fatigue cracking. Superior durability and dimensional stability. Outstanding thermal conductivity. Unlimited working life, minimal waste compared to two part systems. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-Supreme-3AN-One-Component-Heat-Curing-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Solids Content	100 %	100 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Modulus	3.10 GPa	450 ksi	
Shear Strength	>= 8.27 MPa	>= 1200 psi	Tensile, Al to Al
Peel Strength	>= 1.75 kN/m	>= 10.0 pli	T-peel, Al to Al

Thermal Properties	Metric	English	Comments
Thermal Conductivity	3.31 - 3.46 W/m-K	23.0 - 24.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	121 °C	250 °F	

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

Processing Properties	Metric	English	Comments
Cure Time	5.00 - 10.000 min	0.0833 - 0.16667 hour	
	@Temperature 149 °C	@Temperature 300 °F	
	20.000 - 30.0 min	0.33333 - 0.500 hour	
	@Temperature 121 °C	@Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	in original closed containers
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Appearance	Gray	

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