

Master Bond Supreme 10HTND-3 Non-Drip Epoxy Resists High Temperatures

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

Material Notes:

Description: Master Bond Supreme 10HTND-3 features a blend of performance properties including both high shear and peel strengths along with a totally non-drip application feature. This one component system is formulated to cure at elevated temperatures, e.g. 60-75 minutes at 250°F. Tensile shear strengths of 3,600 psi and T-peel strengths up to 30 pli are readily obtained. Supreme 10HTND-3 has a number of processing advantages; no mixing is necessary prior to use, the viscosity remains constant with time (i.e. it will not thicken over time), the working life is unlimited at room temperature and it is room temperature storable. This epoxy is cryogenically serviceable and has a wide temperature range of 4K to +400°F. Master Bond Supreme 10HTND-3 readily withstands severe thermal cycling along with mechanical shock and vibration. It is very resistant to many chemicals including water, oils, fuels, solvents, acids and bases. It has excellent adhesion to metals, glass, ceramics and many plastics. The cured epoxy is a superior electrical insulator. Its natural color is gray, but other colors are available. Its viscosity is pastelike and has no flow at all when cured. Supreme 10HTND-3's high performance properties coupled with its convenient handling make it widely used in a variety of applications in the aerospace, electronic, electrical, computer, metalworking, appliance, automotive and chemical industries. Product Advantages: Single component system; no mixing needed prior to use; no viscosity changes over time. Completely non-flow when applied and cured. Room temperature storable. Versatile cure schedules: 60-75 minutes at 250°F; 35-45 minutes at 300°F. High shear and peel strengths to a wide variety of similar and dissimilar substrates. Service temperature range of 4K to +400°F. Good electrical insulating properties and chemical resistance. Superior thermal cycling ability; resistance to mechanical and thermal shocks. 100% reactive; contains no solvents or diluents. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-Supreme-10HTND-3-Non-Drip-Epoxy-Resists-High-Temperatures.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 70	>= 70	
Tensile Strength at Break	>= 51.7 MPa	>= 7500 psi	
Elongation at Break	>= 5.0 %	>= 5.0 %	
Tensile Modulus	>= 2.76 GPa	>= 400 ksi	
Flexural Strength	>= 68.9 MPa	>= 10000 psi	
Compressive Strength	>= 89.6 MPa	>= 13000 psi	
Shear Strength	>= 24.8 MPa	>= 3600 psi	Tensile, Al to Al
Peel Strength	4.38 - 5.26 kN/m	25.0 - 30.0 pli	T-peel, Al to Al

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-168 °C	-270 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	35.000 - 45.0 min	0.58333 - 0.750 hour	
	@Temperature 149 °C	@Temperature 300 °F	
	60.0 - 75.0 min	1.00 - 1.25 hour	
	@Temperature 121 °C	@Temperature 250 °F	
Shelf Life	3.00 - 6.00 Month	3.00 - 6.00 Month	in original unopened containers
	@Temperature 23.9 °C	@Temperature 75.0 °F	

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