

Master Bond Supreme 10AOHT-LO High Shear and Peel Strength Epoxy

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

Material Notes:

Description: Master Bond Supreme 10AOHT-LO has a combination of properties consisting of excellent thermal conductivity, superior electrical insulation, great adhesion to a wide variety of substrates and the ability to withstand rigorous thermal cycling. This one component, no mix system is formulated to cure at elevated temperatures e.g. 45-60 minutes at 250-300°F depending on the temperature. The tensile shear strength exceeds 2,700 psi. It is serviceable at cryogenic temperatures from 4K to +400°F. It is 100% reactive and does not contain any diluents or solvents. It has excellent adhesion to most metals, ceramics, glass and vulcanized rubbers, as well as many plastics. Supreme 10AOHT-LO produces durable, high strength, thermally conductive, very tough bonds which are resistant to many chemicals including water, oil, fuels and many acids and bases. One particularly noteworthy feature of this system is its toughness, which imparts resistance to thermal cycling as well as thermal and mechanical shock. It also gives it higher peel strength. It is gray in color. Master Bond Supreme 10AOHT-LO is widely used in electronic, electro-optic, aerospace and specialty applications where high strength, the convenience of a no mix system, excellent thermal transfer properties and high temperature resistance are required. Most importantly, Supreme 10AOHT-LO passes NASA low outgassing testing as per ASTM E595. Key Features Meets NASA low outgassing specifications Cryogenically serviceable down to 4K Outstanding thermal cycling resistance Great shear and peel strength Withstands temperatures up to 400°F

Product Advantages: Single component system; no mixing prior to use Easy application; contact pressure only required during simple heat cure; spreads evenly & smoothly High peel and shear strengths to a wide variety of substrates Good chemical resistance Great physical strength properties Excellent electrical insulating properties and high thermal conductivity Excellent durability and dimensional stability

Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-Supreme-10AOHT-LO-High-Shear-and-Peel-Strength-Epoxy.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 80	>= 80	
Tensile Strength at Break	>= 48.3 MPa	>= 7000 psi	
Tensile Modulus	3.45 - 3.79 GPa	500 - 550 ksi	
Compressive Strength	110 - 124 MPa	16000 - 18000 psi	
Shear Strength	>= 18.6 MPa	>= 2700 psi	Tensile lap, Al to Al
Peel Strength	0.877 - 1.75 kN/m	5.00 - 10.0 pli	T-peel, Al to Al

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.30 - 1.44 W/m-K	9.00 - 10.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-168 °C	-270 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{14}$ ohm-cm	$\geq 1.00 \times 10^{14}$ ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	9.00 - 60.0 min	0.150 - 1.00 hour	
Shelf Life	3.00 - 6.00 Month @Temperature 23.9 °C	3.00 - 6.00 Month @Temperature 75.0 °F	in original unopened containers

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