

## Master Bond EP17HT-3 One component, snap-curing epoxy system

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

### Material Notes:

**Product Description:** Master Bond Polymer System EP17HT-3 is a one part epoxy that fully cures in 2-3 minutes at 250-300°F. It is capable of service up to +400°F with excellent strength retention properties. Also, unlike many other one part epoxies, EP17HT-3 can be cured in sections up to ¼ inch thick. EP17HT-3 is 100% reactive and contains no solvents or diluents. As a one part system, it not only requires no mixing, but the working life is "indefinite". It will not gel until heated above 200°F. EP17HT-3 has excellent electrical insulation characteristics, superior chemical resistance and outstanding physical properties. It is yellow to brown in color. There is a paste version called EP17HT-3ND2 as well as a slightly toughened formulation called Supreme 17HT-3 which offers enhanced resistance to thermal cycling and thermal and mechanical shock. **Product Advantages:** One part system; no mixing required; contains no solvents or diluents **Snap cure:** Sets up in 20-30 seconds and fully cures in 2-3 minutes at 250-300°F Superior temperature resistance; serviceable up to +400°F Outstanding electrical insulation properties and chemical resistance Can cure in sections up to ¼ inch thick **Easy application:** Unlimited working life—will not set up at room temperature Information provided by MasterBond®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-EP17HT-3-One-component-snap-curing-epoxy-system.php](http://www.lookpolymers.com/polymer_Master-Bond-EP17HT-3-One-component-snap-curing-epoxy-system.php)

Physical Properties	Metric	English	Comments
Solids Content	100 %	100 %	
Viscosity	80000 - 130000 cP	80000 - 130000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 85	>= 85	
Tensile Strength at Break	>= 552 MPa	>= 80000 psi	
Shear Strength	>= 14.5 MPa	>= 2100 psi	tensile lap, aluminum to aluminum

Thermal Properties	Metric	English	Comments
CTE, linear	4.00 - 5.00 µm/m-°C	2.22 - 2.78 µin/in-°F	
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	
Glass Transition Temp, Tg	110 - 120 °C	230 - 248 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
	4.8	4.8	

Dielectric Constant Electrical Properties	@Frequency 60.0 Hz, Metric Temperature 25.0 °C	@Frequency 60.0 Hz, English Temperature 77.0 °F	Comments
Processing Properties	Metric	English	Comments
Cure Time	1.80 - 3.00 min	0.0300 - 0.0500 hour	
	@Temperature 149 °C	@Temperature 300 °F	
	3.00 - 4.02 min	0.0500 - 0.0670 hour	
	@Temperature 121 °C	@Temperature 250 °F	
Shelf Life	6.00 Month	6.00 Month	in original, unopened containers

## Contact Songhan Plastic Technology Co.,Ltd.

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