

Master Bond EP42HT-2LO Low Outgassing, Heat Resistant Two Component Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Cast, Unreinforced , Epoxy, High Temperature

Material Notes:

Master Bond Polymer System EP42HT-2LO is a room temperature curable two component epoxy, adhesive, sealant, coating and casting material featuring high temperature resistance along with outstanding chemical resistance. EP42HT-2LO is a superior epoxy adhesive system and is castable to thicknesses exceeding 2-3 inches. EP42HT-2LO cures readily at ambient temperatures or more quickly at elevated temperatures. One particularly popular cure schedule is overnight at room temperature followed by 2-4 hours at 150-200°F. EP42HT-2LO has excellent physical strength properties and dimensional stability. It is suitable for cryogenic service down to 4K.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP42HT-2LO-Low-Outgassing-Heat-Resistant-Two-Component-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	30 - 70 cP	30 - 70 cP	Part B
	@Temperature 23.9 °C	@Temperature 75.0 °F	
	1000 - 1800 cP	1000 - 1800 cP	Part A
	@Temperature 52.0 °C	@Temperature 126 °F	
	55000 - 110000 cP	55000 - 110000 cP	Part A
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Strength	>= 82.7 MPa	>= 12000 psi	
Elongation at Break	<= 5.0 %	<= 5.0 %	
Tensile Modulus	>= 3.10 GPa	>= 450 ksi	
Shear Strength	>= 13.8 MPa	>= 2000 psi	Tensile lap, Al/Al

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 - 40.0 µm/m-°C	19.4 - 22.2 µin/in-°F	
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-269 °C	-452 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.62	1.62	

Optical Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	3.8	3.8	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	2880 - 4320 min	48.0 - 72.0 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	45 - 75 min	45 - 75 min	100 gram batch
Shelf Life	12.0 Month	12.0 Month	in original unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	100:40	by weight, Part A to Part B
	100:50	by volume, Part A to Part B

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China