

Master Bond EP42HT-2FG Two Component Epoxy Adhesive for Food Applications

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

Material Notes:

Master Bond Polymer System EP42HT-2FG is a room temperature setting, two component epoxy adhesive, sealant and coating specially formulated for food applications. It has been independently tested and certified by a laboratory to meet the most stringent requirements of FDA CFR 175.300. It was additionally assessed and found to meet the toxicological requirements of the NSF/ANSI 51(2009) Standard for Food Equipment Materials as defined in section 4.1.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP42HT-2FG-Two-Component-Epoxy-Adhesive-for-Food-Applications.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 51.7 °C	@Temperature 125 °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	
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	-51.1 °C	-60.0 °F	

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

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	@Temperature 65.6 - 93.3 °C	@Temperature 150 - 200 °F	
	720 min	12.0 hour	
	@Temperature 65.6 - 93.3 °C	@Temperature 150 - 200 °F	followed by 2-3 hrs at 150°-200°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)	100:30	

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