

Master Bond EP21NDLO Low Outgassing, Room Temperature Curing Two Component Epoxy

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

Material Notes:

Master Bond EP21ND-LO is a two component, room temperature curing epoxy system for bonding, sealing and coating featuring outstanding physical properties. EP21ND-LO has a convenient one to one mix ratio by weight. It has a paste-like viscosity after mixing. EP21ND-LO can be applied without sagging or dripping even on vertical surfaces. EP21ND-LO produces high strength, durable bonds which hold up well to thermal cycling and resist many chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP21NDLO-Low-Outgassing-Room-Temperature-Curing-Two-Component-Epoxy.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 70	>= 70	
Tensile Strength	>= 51.7 MPa	>= 7500 psi	
Elongation at Break	>= 5.0 %	>= 5.0 %	
Tensile Modulus	>= 2.07 GPa	>= 300 ksi	
Compressive Strength	>= 68.9 MPa	>= 10000 psi	
Adhesive Bond Strength	>= 17.2 MPa	>= 2500 psi	shear, Al/Al

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 55.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	27.8 - 30.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Maximum Service Temperature, Air	121 $^\circ\text{C}$	250 $^\circ\text{F}$	
Minimum Service Temperature, Air	-51.1 $^\circ\text{C}$	-60.0 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	2.92	2.92	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	
	@Temperature 93.3 $^\circ\text{C}$	@Temperature 200 $^\circ\text{F}$	
	720 - 1440 min	12.0 - 24.0 hour	plus 2 hrs at 150-200 $^\circ\text{F}$

Processing Properties	@Temperature 23.9 °C Metric	@Temperature 75.0 °F English	Comments
	2880 - 4320 min	48.0 - 72.0 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	90 - 120 min	90 - 120 min	100 gram mass
Shelf Life	12.0 Month	12.0 Month	in original unopened containers
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	1:1	
Viscosity	Paste	Mixed compound, 75°F

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