

Master Bond EP21TDCHT-LO Room Temperature Curing, Toughened Two Component Epoxy

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

Material Notes:

Master Bond Polymer Adhesive EP21TDCHT-LO is a two component epoxy adhesive formulated to cure at room temperature or more rapidly at elevated temperatures, with a very forgiving and convenient one to one mix ratio. Upon curing, the EP21TDCHT-LO offers high shear and peel strength which allows it to be used in a number of demanding situations including temperature cycling, as well as high vibration and mechanical shock. It will bond well to most metals, plastics, rubbers, glass and ceramics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP21TDCHT-LO-Room-Temperature-Curing-Toughened-Two-Component-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	60000 - 110000 cP	60000 - 110000 cP	Part A
	70000 - 140000 cP	70000 - 140000 cP	Part B

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 60	>= 60	
Tensile Strength	>= 24.1 MPa	>= 3500 psi	
Elongation at Break	>= 10 %	>= 10 %	
Tensile Modulus	>= 1.21 GPa	>= 175 ksi	
Adhesive Bond Strength	>= 16.5 MPa	>= 2400 psi	shear, Al/Al, after 30 days water immersion
	>= 17.2 MPa	>= 2500 psi	shear, Al/Al
Peel Strength	>= 3.51 kN/m	>= 20.0 pli	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 °C	350 °F	
Minimum Service Temperature, Air	-269 °C	-452 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Constant	3.8	3.8	

Processing Properties	Metric	English	Comments
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Processing Properties	120 - 180 min Metric	2.00 - 3.00 hour English	Comments
	@Temperature 93.3 °C	@Temperature 200 °F	
	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 unopened containers
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	1/1	

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