

Master Bond EP21TDC-4 Two Component, Highly Flexible Epoxy System

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

Material Notes:

Master Bond Polymer System EP21TDC-4 is a two component, flexible epoxy resin system for high performance bonding, sealing and coating. It is formulated to cure at ambient temperatures or more quickly at elevated temperatures, with a one to four mix ratio by weight. The cured system has a peel strength greater than 30 pli and an elongation of over 200%. EP21TDC-4 bonds well to a wide variety of metals, plastics and especially rubbers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP21TDC-4-Two-Component-Highly-Flexible-Epoxy-System.php

Physical Properties	Metric	English	Comments
Water Absorption	<= 1.0 %	<= 1.0 %	tap water submersion @25°C for 14 days
Viscosity	9000 - 14000 cP	9000 - 14000 cP	Part A
	225000 - 350000 cP	225000 - 350000 cP	Part B

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	30	30	after curing for 24 hrs at 25°C and 5 hours at 65°C
Tensile Strength	>= 20.7 MPa	>= 3000 psi	
Elongation at Break	>= 200 %	>= 200 %	
Shear Strength	>= 6.89 MPa	>= 1000 psi	Al to Al
Peel Strength	>= 5.26 kN/m	>= 30.0 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	110 - 130 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	61.1 - 72.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	180 - 240 min	3.00 - 4.00 hour	
	@Temperature 65.6 °C	@Temperature 150 °F	

Processing Properties	Metric	English	Comments
	300 min	3.00 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	>= 90 min	>= 90 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)	1:4	

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