

Master Bond Supreme 33CLV Two Component, Room Temperature Curing Toughened Epoxy

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

Material Notes:

Master Bond Polymer System Supreme 33CLV is a special, room temperature curing, toughened epoxy adhesive/sealant, featuring exceptionally high temperature resistance. This innovative system has outstanding physical properties along with a wide service temperature range from -100°F to +425°F. Supreme 33CLV is a toughened system which imparts superior resistance to impact, thermal shock and thermal cycling. It is 100% reactive and contains no solvents or diluents.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-Supreme-33CLV-Two-Component-Room-Temperature-Curing-Toughened-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	2500 - 5000 cP	2500 - 5000 cP	Part B
	40000 - 70000 cP	40000 - 70000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Strength	>= 51.7 MPa	>= 7500 psi	
Adhesive Bond Strength	>= 10.3 MPa	>= 1500 psi	Shear, Al/Al, after 30 days at 400°F
	>= 17.2 MPa	>= 2500 psi	Shear, Al/Al
Peel Strength	>= 2.63 kN/m	>= 15.0 pli	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	218 °C	425 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Strength	>= 15.7 kV/mm	>= 400 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	
	@Temperature 93.3 °C	@Temperature 200 °F	

Processing Properties	Metric 4320 min	English 2.0 hour	Comments
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	60 - 90 min	60 - 90 min	
Shelf Life	12.0 Month	12.0 Month	original unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	1:1	by volume
	100:70	by weight

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