

## Master Bond EP21FRNS-2 Two Component, Flame Resistant Epoxy System

Category : Polymer , Thermoset , Epoxy , Epoxy Encapsulant, Unreinforced , Epoxy, Cast, Unreinforced

### Material Notes:

Master Bond Polymer System EP21FRNS-2 is a two component, room temperature curing, flame retardant compound for potting, encapsulating and casting. Particularly noteworthy are its low smoke generation and that it contains a non-halogenated filler. It has a convenient one to one mix ratio by weight. EP21FRNS-2 offers exceptional durability, toughness and strength. It is remarkably resistant to thermal cycling and many chemicals including water, fuels, lubricants, acids, among others. As per the UL 94V.0 specification, this system is serviceable over the wide temperature range of -51°C to 90°C. It bonds well to metals, glass, ceramics and many plastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-EP21FRNS-2-Two-Component-Flame-Resistant-Epoxy-System.php](http://www.lookpolymers.com/polymer_Master-Bond-EP21FRNS-2-Two-Component-Flame-Resistant-Epoxy-System.php)

Physical Properties	Metric	English	Comments
Viscosity	30000 - 45000 cP	30000 - 45000 cP	Part B
	40000 - 70000 cP	40000 - 70000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Strength	>= 20.7 MPa	>= 3000 psi	
Adhesive Bond Strength	>= 8.27 MPa	>= 1200 psi	shear, Al/Al

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	32.2 °C	90.0 °F	
Minimum Service Temperature, Air	-46.1 °C	-51.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.5	4.5	
	@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 °C	@Temperature 200 °F	
	2880 - 4320 min	48.0 - 72.0 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	90 - 150 min	90 - 150 min	100 grams

Processing Properties	Metric	English	Comments
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	

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