

## Master Bond EP21LSCL-1 Two Component, Room Temperature Curing Epoxy Resin

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

### Material Notes:

**Product Description:** Master Bond Polymer System EP21LSCL-1 is a two component, low viscosity epoxy resin system featuring optical clarity as well as non-yellowing properties. This system can be used for high performance coating, bonding, sealing, encapsulation and casting. It is formulated to cure easily at room temperature or more quickly at elevated temperatures. Master Bond EP21LSCL-1 is 100% reactive and does not contain any solvents or volatiles. It bonds well to metals, glass, ceramics, wood and many plastics and has good chemical resistance to water, fuels, oils, acids and bases. EP21LSCL-1 has great electrical insulation properties. Also of great significance is EP21LSCL-1's exceptionally long open time. This low exothermic epoxy is ideal for larger castings ranging upwards of 2-3 inches thick. Its service temperature range is from -60°F to +250°F. It has excellent clarity and light transmission and unlike most epoxy formulations, it has very good clarity retention. **Product Advantages:** Simple 100:60 mix ratio by weight. Low viscosity; easily applied for bonding, sealing, coating and encapsulating. Long working life. Excellent physical strength properties, and good chemical resistance. Adhesion to similar and dissimilar substrates. Non-yellowing characteristics. Electrical insulation properties.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-EP21LSCL-1-Two-Component-Room-Temperature-Curing-Epoxy-Resin.php](http://www.lookpolymers.com/polymer_Master-Bond-EP21LSCL-1-Two-Component-Room-Temperature-Curing-Epoxy-Resin.php)

Physical Properties	Metric	English	Comments
Viscosity	600 - 1200 cP	600 - 1200 cP	Part B
	1800 - 2500 cP	1800 - 2500 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Strength at Break	>= 62.1 MPa	>= 9000 psi	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Tensile Modulus	2.41 - 2.76 GPa	350 - 400 ksi	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Shear Strength	>= 13.8 MPa	>= 2000 psi	Al/Al, Tensile lap

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 - 45.0 µm/m-°C	22.2 - 25.0 µin/in-°F	
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	15.6 °C	60.0 °F	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	4.1	4.1	
Dielectric Strength	17.3 kV/mm @Thickness 3.17 mm	440 kV/in @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Cure Time	180 min @Temperature 93.3 °C	3.00 hour @Temperature 200 °F	
	180 - 300 min @Temperature 23.9 °C	3.00 - 5.00 hour @Temperature 75.0 °F	
Pot Life	9.0 - 11 min	9.0 - 11 min	100 gram mass
Shelf Life	12.0 Month @Temperature 23.9 °C	12.0 Month @Temperature 75.0 °F	at ambient temperatures in original closed containers

Descriptive Properties	Value	Comments
90% gloss retention	2000 hrs	Xenon Weather-O-Meter
	400 hrs	QUV Cyclic Ultraviolet Weathering Tester
Mixing Ratio (A to B)	100:60	by weight

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China