

## Master Bond EP41SMed Two Component, Low Viscosity, USP Class VI Epoxy System

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

### Material Notes:

Master Bond Polymer Adhesive EP41S Medical is a two component low viscosity epoxy resin system for high performance bonding, sealing, coating, as well as small encapsulations, pottings and castings. It is formulated to cure readily at room temperature or more quickly at elevated temperatures. One notable property is its very fast curing at room temperature. EP41S Medical meets USP Class VI specifications, making it well suited for a variety of uses in medical devices as an adhesive, sealant and coating.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-EP41SMed-Two-Component-Low-Viscosity-USP-Class-VI-Epoxy-System.php](http://www.lookpolymers.com/polymer_Master-Bond-EP41SMed-Two-Component-Low-Viscosity-USP-Class-VI-Epoxy-System.php)

Physical Properties	Metric	English	Comments
Viscosity	4000 - 6000 cP	4000 - 6000 cP	Part B
	8000 - 10000 cP	8000 - 10000 cP	mixed compound
	10000 - 14000 cP	10000 - 14000 cP	Part A

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 68.9 MPa	>= 10000 psi	
Tensile Modulus	2.76 GPa	400 ksi	
Adhesive Bond Strength	>= 17.9 MPa	>= 2600 psi	after 30 days water absorption
	>= 18.6 MPa	>= 2700 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Strength	>= 17.3 kV/mm	>= 440 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	

Processing Properties	Metric <sub>in</sub>	English <sub>ur</sub>	Comments
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	10 - 15 min	10 - 15 min	100 gram mass
Shelf Life	6.00 Month	6.00 Month	in unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	5/1	

## Contact Songhan Plastic Technology Co.,Ltd.

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