

## Master Bond EP30QF Quartz Filled, Two Component Epoxy System

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

### Material Notes:

Master Bond Polymer System EP30QF is a quartz filled, two component epoxy for high performance bonding, sealing, coating and casting that is formulated to cure at room temperature or more rapidly at elevated temperatures with a four to one mix ratio by weight. Master Bond Polymer System EP30QF produces high strength, rigid bonds which are remarkably resistant to chemicals including water, oil and many solvents. Its adhesion to both similar and dissimilar materials including metals, glass, ceramics and plastics is excellent.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-EP30QF-Quartz-Filled-Two-Component-Epoxy-System.php](http://www.lookpolymers.com/polymer_Master-Bond-EP30QF-Quartz-Filled-Two-Component-Epoxy-System.php)

Physical Properties	Metric	English	Comments
Viscosity	1000 - 4000 cP	1000 - 4000 cP	Part B
	25000 - 40000 cP	25000 - 40000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 80	>= 80	
Tensile Strength	>= 51.7 MPa	>= 7500 psi	
Tensile Modulus	>= 2.76 GPa	>= 400 ksi	
Compressive Strength	>= 124 MPa	>= 18000 psi	
Adhesive Bond Strength	>= 6.89 MPa	>= 1000 psi	Shear AI/AI

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 Constant	4.3	4.3	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	>= 16.5 kV/mm	>= 420 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Dissipation Factor	0.024	0.024	
	@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	
	1440 - 2880 min	24.0 - 48.0 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Pot Life	30 - 40 min	30 - 40 min	100 gram mass
Shelf Life	6.00 Month	6.00 Month	in original unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	4:1	

## Contact Songhan Plastic Technology Co.,Ltd.

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