

## Master Bond EP30M4 Chemically Resistant Two Component Epoxy System

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

### Material Notes:

Master Bond Polymer System EP30M4 is a two component epoxy system for high performance bonding, sealing and encapsulation. This system features a forgiving 100 to 60 mix ratio by weight. EP30M4 resists water, acids, bases, fuels and oils, along with many aggressive solvents. Some of the potent chemicals it can resist include skydrol, xylene, 70% sulfuric acid, 98% sulfuric acid, 50% sodium hydroxide and bleach.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-EP30M4-Chemically-Resistant-Two-Component-Epoxy-System.php](http://www.lookpolymers.com/polymer_Master-Bond-EP30M4-Chemically-Resistant-Two-Component-Epoxy-System.php)

Physical Properties	Metric	English	Comments
Viscosity	350 - 700 cP	350 - 700 cP	Part B
	55000 - 110000 cP	55000 - 110000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75 - 85	75 - 85	
Tensile Strength	>= 48.3 MPa	>= 7000 psi	
Tensile Modulus	2.41 - 2.76 GPa	350 - 400 ksi	
Compressive Strength	68.9 MPa	10000 psi	
Adhesive Bond Strength	>= 13.8 MPa	>= 2000 psi	Shear AI/AI

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 - 50.0 $\mu\text{m}/\text{m}\cdot\text{C}$	25.0 - 27.8 $\mu\text{in}/\text{in}\cdot\text{F}$	
Maximum Service Temperature, Air	149 $^{\circ}\text{C}$	300 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-62.2 $^{\circ}\text{C}$	-80.0 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	3.71	3.71	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	

Processing Properties	@Temperature 23.9 °C Metric	@Temperature 75.0 °F English	Comments
	120 - 180 min	2.00 - 3.00 hour	
	@Temperature 93.3 °C	@Temperature 200 °F	
Pot Life	45 - 75 min	45 - 75 min	100 gram mass
Shelf Life	12.0 Month	12.0 Month	in original unopened containers

Descriptive Properties	Value	Comments
Chemical Resistance	10% Acetic Acid	Not Recommended after 1 year immersion
	5% Acetic Acid	Fair after 1 year immersion
	50% Sodium Hydroxide	Excellent after 1 year immersion
	70% Sulfuric Acid	Excellent after 1 year immersion
	98% Sulfuric Acid	Excellent after 1 year immersion
	DI Water	Excellent after 1 year immersion
	Ethanol	Good after 1 year immersion
	MEK	Not Recommended after 1 year immersion
	Skydrol	Excellent after 1 year immersion
	Toluene	Not Recommended after 1 year immersion
	Trichloroethane	Excellent after 1 year immersion
	Xylene	Excellent after 1 year immersion
Mixing Ratio (A to B)	100:60	

## Contact Songhan Plastic Technology Co.,Ltd.

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