

Master Bond EP30-3LO Highly versatile, two part epoxy system for bonding, coating, sealing and casting

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

Material Notes:

Master Bond EP30-3LO is a two component epoxy system featuring a combination of optical clarity and light transmission, good glass transition temperature (Tg), great chemical resistance along with passing NASA low outgassing testing requirements. It has an easy to use 100 to 30 mix ratio by weight, and while it requires heat curing (see below for details) it offers a long open time of 6-10 hours. It bonds well to a wide variety of substrates including metals, glass, composites and many plastics and rubbers. EP30-3LO has good electrical insulation properties and chemical resistance, particularly to water, oils, acids, bases and many solvents. This versatile system can be used for bonding, sealing, coating and potting applications. An added dimension is its compliance with NASA low outgassing requirements. Also compelling is its high Tg greater than 175°C, which good for an epoxy with these kinds of optical properties. The service temperature range is -80°F to +450°F. It can be used in aerospace, electronics and most frequently in opto-electronics and optical applications

Product Advantages: Convenient mix ratio; 100:30 by weight Low viscosity, easy to apply; very long working life High bonding strength to metals, many plastics, rubber and glass Excellent chemical resistance to acids, bases, oils and solvents Good optical clarity and transmission Outstanding electrical insulation; can be used for potting and encapsulation Resistance to many chemicals including solvents, fuels, acids and bases Bonds well to a wide variety of substrates

Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP30-3LO-Highly-versatile-two-part-epoxy-system-for-bonding-coating-sealing-and-casting.php

Physical Properties	Metric	English	Comments
Water Absorption	<= 0.10 %	<= 0.10 %	
	@Temperature 23.9 °C, Time 86400 sec	@Temperature 75.0 °F, Time 24.0 hour	
Viscosity	100 - 150 cP	100 - 150 cP	Part B
	10000 - 14000 cP	10000 - 14000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Strength at Break	>= 75.8 MPa	>= 11000 psi	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Elongation at Break	4.0 - 5.0 %	4.0 - 5.0 %	
Tensile Modulus	>= 2.41 GPa	>= 350 ksi	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Maximum Service Temperature, Air Thermal Properties	232 °C Metric	450 °F English	Comments
Minimum Service Temperature, Air	-62.2 °C	-80.0 °F	
Glass Transition Temp, Tg	>= 175 °C	>= 347 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Dielectric Constant	3.5 @Frequency 60.0 Hz, Temperature 25.0 °C	3.5 @Frequency 60.0 Hz, Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min @Temperature 76.7 °C	1.00 - 2.00 hour @Temperature 170 °F	plus 2-3 hrs at 300°F
Pot Life	3600 - 6000 min	3600 - 6000 min	100 gram mass
Shelf Life	12.0 Month @Temperature 23.9 °C	12.0 Month @Temperature 75.0 °F	in original unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	100:30	by weight

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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