Master Bond EP38 Low Viscosity, Fast Curing, Two Component Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Master Bond Polymer System EP38 is a fast curing, low viscosity, optically clear two component epoxy system for high performance coating, bonding and sealing. EP38 has a unique balance of favorable physical strengths, optical clarity, electrical insulation characteristics and unexcelled resistance to boiling water exposures as well as to many other aggressive chemicals.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Master-Bond-EP38-Low-Viscosity-Fast-Curing-Two-Component-Epoxy.php

Physical Properties	Metric	English	Comments
Water Absorption	<= 0.70 % @Time 173000 sec	<= 0.70 % @Time 48.0 hour	immersion
Viscosity	3000 - 4000 cP	3000 - 4000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 80	>= 80	
Tensile Strength	>= 44.8 MPa	>= 6500 psi	
Elongation at Break	6.0 - 8.0 %	6.0 - 8.0 %	
Shear Strength	>= 16.5 MPa	>= 2400 psi	Lap, Al/Al

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 °C	275 °F	
Minimum Service Temperature, Air	-53.9 °C	-65.0 °F	
Flash Point	121 °C	250 °F	

Optical Properties	Metric	English	Comments
Transmission, Visible	>= 96 %	>= 96 %	3100-9000Â

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	180 min @Temperature 23.9 °C	3.00 hour @Temperature 75.0 °F	Tack-free Time

Processing Properties	Metric	English	Comments
	@Temperature 4.44 °C	@Temperature 40.0 °F	Tack-free Time
Pot Life	20 - 30 min	20 - 30 min	
Shelf Life	12.0 Month	12.0 Month	in unopened containers

Descriptive Properties	Value	Comments
Chemical Resistance	Ammonium hydroxide, 10%	No effect up to 4 week immersion; strongly attacked or destroyed after 10 weeks
	Benzene	No effect up to 2 week immersion, then softened 4+ weeks immersion
	Crude oil	No effect up to 12 week immersion
	Diacetone alcohol	No effect up to 5 week immersion, then softened 6+ weeks up immersion
	Ethanol, 50%	No effect up to 12 week immersion
	Ethanol, 96%	No effect up to 12 week immersion
	Gasoline 98 octane	No effect up to 12 week immersion
	Hydrochloric acid, 10%	No effect up to 12 week immersion
	Hydrochloric acid, 20%	No effect up to 12 week immersion
	Octanol	No effect up to 12 week immersion
	Seawater	No effect up to 12 week immersion
	Skydrol	No effect up to 12 week immersion
	Sodium hydroxide, 20% Butyl acetate	No effect up to 12 week immersion
	Sulfuric acid, 10%	No effect up to 12 week immersion
	Sulfuric acid, 30%	No effect up to 12 week immersion
	Sulfuric acid, 70%	No effect up to 12 week immersion
	Toluene	No effect up to 12 week immersion
	Water, distilled	No effect up to 12 week immersion
	Xylene	No effect up to 12 week immersion
Mixing Ratio (A to B)	3/1	
Resistance to Boiling Water Immersions	No Effect	2 days, Cured at 75°F

Descriptive Properties	Value	Comments
	No Effect	8 weeks, Cured at 75°F
	No Effect	10 weeks, Cured at 75°F
	No Effect	12 weeks, Cured at 75°F

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