

Master Bond EP30LTE-LO Dimensionally Stable Low Outgassing Two Part Epoxy

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

Material Notes:

Master Bond Polymer System EP30LTE-LO is a thermal shock resistant epoxy resin system with low thermal expansion properties and dimensional stability for high performance bonding, sealing and casting. This two component epoxy resin compound, cures readily at ambient or more quickly at elevated temperatures, significant reduction in the high thermal expansion coefficients characteristic of epoxies and all other organic polymers while retaining their advantageous properties and ease of processability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP30LTE-LO-Dimensionally-Stable-Low-Outgassing-Two-Part-Epoxy.php

Physical Properties	Metric	English	Comments
Water Absorption	<= 1.0 %	<= 1.0 %	
	@Time 86400 sec	@Time 24.0 hour	
Viscosity	10 - 110 cP	10 - 110 cP	Part B
	45000 - 75000 cP	45000 - 75000 cP	Part A

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 34.5 MPa	>= 5000 psi	
Elongation at Break	<= 3.0 %	<= 3.0 %	
Adhesive Bond Strength	>= 6.89 MPa	>= 1000 psi	Shear AI/AI

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.67 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Thermal Conductivity	>= 0.720 W/m-K	>= 5.00 BTU-in/hr-ft ² -°F	
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	4.1	4.1	
	@Frequency 106 Hz	@Frequency 106 Hz	

Processing Properties	Metric	English	Comments
Cure Time	2880 min	48.0 hour	85% maximum strength developed within
	120 - 240 min	2.00 - 4.00 hour	
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	40 - 60 min	40 - 60 min	200 gram mass
Shelf Life	6.00 Month	6.00 Month	in unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	10/1	

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