

Master Bond LED401 One Component LED Curable Adhesive System

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

Material Notes:

Master Bond LED401 is a highly innovative, one part LED type system that cures fully upon exposure to a 405 nm wavelength light source where the presence of any UV light is minimal or incidental. In fact, this system will fully cure tack-free without any oxygen inhibition. This breakthrough technology allows LED401 to be utilized not only as an adhesive, but as a sealant, coating and encapsulation material. This system can cure in sections up to and beyond 1/8 inch thick upon exposure to the LED light. Since it is a LED curable system, it is intrinsically safer than one requiring UV light for polymerization, as LED light emitting sources are generally considered to be less hazardous and more user friendly than their comparable UV counterparts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-LED401-One-Component-LED-Curable-Adhesive-System.php

Physical Properties	Metric	English	Comments
Viscosity	100000 - 150000 cP	100000 - 150000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 70	65 - 70	
Tensile Strength	>= 24.1 MPa	>= 3500 psi	
Tensile Modulus	0.276 - 0.552 GPa	40.0 - 80.0 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 65.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	33.3 - 36.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Maximum Service Temperature, Air	121 $^{\circ}\text{C}$	250 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-51.1 $^{\circ}\text{C}$	-60.0 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	70.0 - 75.0 $^{\circ}\text{C}$	158 - 167 $^{\circ}\text{F}$	

Optical Properties	Metric	English	Comments
Transmission, Visible	>= 90 %	>= 90 %	thickness not specified

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	3.7	3.7	
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	unopened containers with no exposure to light

Descriptive Properties	Value	Comments
Color	Clear	

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