

Master Bond LED401LV One Component, Moderate Viscosity LED Curable System

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

Material Notes:

Master Bond LED401LV is a very special, one part LED type system that will cure when exposed to a light source emitting 405 nm wavelength and where the presence of any UV light is minimal or incidental. When exposed to the light, LED401LV will cure completely tack-free in sections of 1/8 inch thick and beyond. The system can be used as an adhesive, sealant, coating and encapsulant. It has excellent optical clarity and light transmission properties, even with a very slight amber tint. Prior to cure, it has a moderate viscosity consistency, but it remains flowable. Additionally, the formulation is solvent-free.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-LED401LV-One-Component-Moderate-Viscosity-LED-Curable-System.php

Physical Properties	Metric	English	Comments
Viscosity	60000 - 80000 cP	60000 - 80000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 65	>= 65	
Tensile Strength	>= 17.2 MPa	>= 2500 psi	
Tensile Modulus	0.172 - 0.345 GPa	25.0 - 50.0 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 - 70.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	36.1 - 38.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
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	60.0 - 65.0 $^{\circ}\text{C}$	140 - 149 $^{\circ}\text{F}$	

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	3.9	3.9	
	@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, with no exposure to light

Descriptive Properties	Value	Comments
Color	Clear	

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