

Master Bond UV10TK40 UV Curable Compound Has Gap Filling Properties

Category : Polymer , Adhesive

Material Notes:

Description: Master Bond UV10TK40 is a higher viscosity, one part UV system for bonding, sealing and coating with good optical clarity, excellent physical properties, chemical resistance and high glass transition temperature (Tg) of 140°C. UV10TK40 cures readily in 20-30 seconds when exposed to a UV light source emitting at a wavelength of 320-365 nm with an energy output as low as 20-40 milliwatts per cm². The rate of cure depends upon the compound's distance from the light source, the thickness of the section and, of course, the intensity of the light source. It should be noted that the system can cure in sections up to 0.090-0.100 inches. However, when bonding, sections of a few thousandths of an inch are more than adequate. Master Bond UV10TK40 is not oxygen inhibited and therefore does not require any special treatment in that regard. It bonds well to glass, surface treated metals and plastics such as polycarbonates and acrylics, among others. Its chemical resistance is particularly good as it resists water, oils, acids, bases and solvents well. UV10TK40 is not only effective for bonding applications; it can also be used as a coating or sealant. The system does not contain any solvents or diluents and none are released during cure. UV10TK40 combines low shrinkage with dimensional stability. Its service temperature range is -60°F to +450°F. UV10TK40 is an electrical insulator. It is effectively used for high production applications where fast fixture times and rapid curing are critical. UV10TK40 is widely used in fiber-optic, optical, opto-electronic, electronic and related industries where very high temperature resistance and higher viscosity are needed. Product Advantages: One component system; no mixing needed; ready to use as supplied Fast cure upon exposure to UV light. No oxygen inhibition Good electrical insulator High bond strength; excellent adhesion to surface treated metals, glass and many plastics Enhanced chemical resistance Outstanding optical clarity; excellent light transmission High Tg of 140°C Key Features High viscosity Chemical resistance Dimensional stability High glass transition temperature Good physical properties Outstanding optical clarity; excellent light transmission Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-UV10TK40-UV-Curable-Compound-Has-Gap-Filling-Properties.php

Physical Properties	Metric	English	Comments
Viscosity	35000 - 45000 cP	35000 - 45000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 75	>= 75	
Tensile Strength at Break	>= 55.2 MPa	>= 8000 psi	
Elongation at Break	3.0 - 4.0 %	3.0 - 4.0 %	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 55.0 µm/m-°C	27.8 - 30.6 µin/in-°F	
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	
Glass Transition Temp, Tg	140 °C	284 °F	

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Refractive Index	1.557	1.557	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	3.5	3.5	
	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	in original unopened container
	@Temperature 7.22 - 12.8 °C	@Temperature 45.0 - 55.0 °F	

Descriptive Properties	Value	Comments
Appearance	transparent	

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