

Master Bond UV10TKLO-2 UV Curable Compound for Aerospace Applications

Category : Polymer , Adhesive

Material Notes:

Description: Master Bond UV10TKLO-2 is a special one component UV curable epoxy modified system for high performance bonding, sealing and encapsulation. This system has passed rigorous testing to meet low outgassing specifications, as per NASA ASTM E-595. UV10TKLO-2 has high clarity and cures readily at room temperature when exposed to UV light. The ideal wavelengths for curing are 320-365 nm and the desired energy is 20-40 milliwatts per cm². The UV system is not inhibited by oxygen. UV10TKLO-2 offers resistance to water as well as to various acids, bases and solvents. The epoxy features superior physical strength properties and its service temperature range is from -60°F to +300°F. UV10TKLO-2 can be cured in thicker sections, up to 1/16 of an inch and can be easily "layered" to higher levels. Most significantly, the low outgassing properties enable this UV to be used in a wide array of optical, electro-optical and vacuum applications that until now have been "off limits" for UV curable epoxies. It should be noted that to optimize the outgassing properties, UV10TKLO-2 should be preheated to approximately 50°C for 15 minutes prior to use and then allowed to cool down to room temperature. UV10TKLO-2 is a first class electrical insulator. **Product Advantages:** One component: no mixing required. Exceptionally fast curing with UV light source. Not oxygen inhibited. High viscosity with excellent clarity and light transmission. Excellent physical strength, electrical insulation and chemical resistance profile. Meets NASA low outgassing test, ASTM E-595, specifications. Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-UV10TKLO-2-UV-Curable-Compound-for-Aerospace-Applications.php

Physical Properties	Metric	English	Comments
Water Absorption	<= 1.0 %	<= 1.0 %	1 week immersion
Viscosity	10000 - 20000 cP	10000 - 20000 cP	
	@Temperature 40.0 °C	@Temperature 104 °F	
	225000 - 275000 cP	225000 - 275000 cP	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80 - 85	80 - 85	
Tensile Strength at Break	>= 41.4 MPa	>= 6000 psi	
Tensile Modulus	>= 1.38 GPa	>= 200 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	149 °C	300 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{14}$ ohm-cm	$\geq 1.00 \times 10^{14}$ ohm-cm	
Dielectric Constant	3.6 @Frequency 60.0 Hz, Temperature 25.0 °C	3.6 @Frequency 60.0 Hz, Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	in original unopened container

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China