

Resin Technology Group UV MX-2240 Multi-Functional Hybrid, UV-Curing, Micro-Electronic System

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Mix ratio 2 to 1 by volume. UV-MX 2240 is a low-viscosity, water-white photo/ chemical cross-linking encapsulant/sealant designed for micro-electronic applications. This two-part, Hybrid UV-epoxy based polymer is designed to gel with exposure to UV light followed by complete cure by internal chemical cross-link, with or without UV exposure. UV-MX 2240's ability to "dark-cure" via conventional amine cure cross-linking makes it ideal for those applications that require the on-line speed of a UV cure and the versatility of a conventional two-part epoxy cure. Applications: Recommended for laminating, bonding and sealing applications of glass products where excellent wetting and outstanding impact strength is required. Electronic-Opto: Back filling of connectors, LED potting, glass touch screens. Processing: UV light cure: Intensity of 200 mw/cm²; Spectral output of 300 to 500 nanometers; Optimum wavelength of 375 nanometers. Information provided by Resin Technology Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resin-Technology-Group-UV-MX-2240-Multi-Functional-Hybrid-UV-Curing-Micro-Electronic-System.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	
Viscosity	300 - 500 cP @Temperature 25.0 °C	300 - 500 cP @Temperature 77.0 °F	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	
Tensile Strength at Break	>= 13.8 MPa	>= 2000 psi	Cured
Elongation at Break	20 %	20 %	Cured
Compressive Strength	>= 34.5 MPa	>= 5000 psi	Cured
Shear Strength	>= 6.89 MPa	>= 1000 psi	Cured, lap, Al/Al, at 25°C

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 °C	248 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 15.7 kV/mm	>= 400 kV/in	Cured
	0.020	0.020	

Electrical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	
	@Temperature 100 °C	@Temperature 212 °F	
	120 min	2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	2880 - 10100 min	48.0 - 168 hour	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	30.0 min	30.0 min	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Gel Time	0.167 - 0.333 min	0.167 - 0.333 min	400 watt UV

Descriptive Properties	Value	Comments
Color	Water white	

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