

Resin Technology Group MX-2212 High Impact, Multi-Functional, UV Curing Adhesive

Category : Polymer , Adhesive , Thermoset

Material Notes:

This multi-functional product is a rapid setting structural adhesive. UV-MX 2212 provides high impact, resilient bonds to many similar and dissimilar substrates. Multi-functional cure bonds are formed very rapidly by using activator, heat or exposure to ultraviolet light. UV-MX 2212 is a general purpose structural, multi-functional UV curing system designed for bonding, potting and sealing applications. Bonds exhibit both toughness and flexibility and perform well under stress caused by different coefficients of expansion. UV cured bonds are translucent to 1/4" thick sections, the maximum suggested UV curable bondline thickness. Applications: Metal bonding, fillet/sealing or bridging. Encapsulation/ unitizing potting laminations. Typical uses: DC motor construction, Magnet bonding, Pump motor housings, Audio speakers, Pot cure bonding, Mounting plates. Processing: Activator Cure: Bondline thickness of 0.02"; Fixture time of 20-30 seconds; 95% full strength in 1 hour; Full cure in 18 hours. Thermal Cure: Heat can be used as a secondary cure mechanism only after UV light curing for surfaces exposed to air. 1 hour at 225°F; 1/2 hour at 250°F; 15 minutes at 300°F. Information provided by Resin Technology Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resin-Technology-Group-MX-2212-High-Impact-Multi-Functional-UV-Curing-Adhesive.php

Physical Properties	Metric	English	Comments
Water Absorption	1.2 %	1.2 %	Cured
Viscosity	5000 cP	5000 cP	Standard, uncured
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Thickness	25000 cP	25000 cP	T-grade, uncured
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Thickness	<= 5080 microns	<= 200 mil	Cured film, activator cure
	<= 6350 microns	<= 250 mil	Cured film, UV cure

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40 - 50	40 - 50	Cured
Tensile Strength at Break	17.2 MPa	2500 psi	Cured
Elongation at Break	160 %	160 %	Cured
Shear Strength	17.2 MPa	2500 psi	Cured, lap, steel/steel

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	300 °C	572 °F	Cured
Minimum Service Temperature, Air	-45.0 °C	-49.0 °F	Cured

Thermal Properties	Metric	English	Comments
Shrinkage	7.0 %	7.0 %	Upon Cure

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.9 kV/mm	480 kV/in	Cured

Descriptive Properties	Value	Comments
Color	Light Straw	
Composition	Urethane Oligomer/ (Meth) Acrylate Monomer Blend	
Solubility	Isopropyl Alcohol, Chlorinated solvents	
Viscosity	Thixo Paste	Gel

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