

Epoxy 042304-10

UNFILLED EPOXY BASED ENCAPSULATION POLYMER

TECHNICAL DATA

Product Description

Epoxy 042304-10 is a room temperature curing, two part epoxy system designed to be used to encapsulate small electronic packages. This one to one mix ratio product provides excellent moisture resistance and is ideal for use in high humidity environments. Once encapsulated with the Epoxy 042304-10 an electronic package will exhibit a higher resistance to both physical shock as well as exposure to water and other potentially harmful chemicals.

APPLICATIONS

FEATURES

RECOMMENDED SUBSTRATES

- Electronic encapsulation
- Room temperature cure
- Moisture and chemically resistant
- Physical shock resistant

UNCURED PROPERTIES*				
Property	Value	Test Method		
Solvent Content	No Nonreactive Solvents	N/A		
Chemical Class, PT A:B	Epoxy : Amine	N/A		
Appearance, PT A:B	Clear : Clear/Amber	N/A		
Soluble in	Organic Solvents	N/A		
Specific Gravity, PT A	1.12	QPTEST002		
Specific Gravity, PT B	1.00	QPTEST002		
Viscosity @ 25C, cps, PT A	4,000-6,500	QPTEST002		
Viscosity @ 25C, cps, PT B	3,400-7,400	QPTEST001		

CURED MECHANICAL PROPERTIES*				
Property	Value	Test Method		
Durometer Hardness, Shore D	60	QPTEST012		
Moisture Resistance	Excellent	N/A		
Operating Temperature Range, C	-60 to 135	N/A		
Tensile Strength, psi	>1,000	N/A		
Tensile Lap Shear, Al/Al, psi	1,500	N/A		
Shrinkage, %	<5	N/A		
CTE, PPM,°C	65	N/A		
Dielectric Strength, Volts/Mil	>400	N/A		
Dissipation Factor, 1MHz	0.02	N/A		

CURE OVERVIEW*				
Property	Value	Test Method		
Mix Ratio by Volume, Resin:Hardener	1:1	N/A		
Work Life @ Room Temperature, min	15	N/A		
Cure Time @ room temperature, 20g, hr	24	N/A		
Cure Time @ 65C, 20g, min	30	N/A		

Storage

Store material in cool, dry location at a temperature between 10°C to 28°C. Keep from freezing. Refer to packaging specific quote for shelf life information. Consult MSDS for safe handling recommendations.

Revision Number: 5 Date: 20 May, 2016

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