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EP1346

Flexible Epoxy Encapsulant

Typical Properties			
Property	Unit	Value	Test Method
Color / Component A		Amber	Visual
Color / Component B		Amber	Visual
Mixing Ratio (A:B)	By volume	2:1	
Density (as mixed)	Gram /cc	1.1	ASTM D792
Viscosity as Mixed at 25°C	cps	8,000	ASTM D2196
Property as Cured			
Color		Amber	Visual
Hardness	Shore A	60	ASTM D2240
Tensile Strength	Мра	5.6	ASTM D638
Elongation	%	38	ASTM D638
Dielectric Constant	@1000Hz	4.0	ASTM D150
Dielectric Strength	Volt/mil AC	> 400	ASTM D149
Volume Resistivity (@24°C)	Ohm-cm	> 10E+12	ASTM D257
Coefficient of Thermal Expansion	ppm/℃	120	IPC-TM-650
Adhesion (Al/Al lap shear)	Psi	> 500	ASTM D1002
Temperature Usage	C	-80 to 180	TGA
Cure Profile			
Cure at 105°C	min	120	Durometer
Cure at 125°C	min	60	Durometer
Cure at 150°C	min	30	Durometer
Pot / Work Life at 25°C (after mixed up)	hr	8	Viscosity double

These figures are only intended as a guide and should not be used in preparing specifications.

Processing Instruction

Only components A and B with the same lot number may be processed together! For the package in a container (not in a cartridge), to ensure homogeneity of the material, the components must be stirred thoroughly before they are removed or processed in order to uniformly disperse any fillers that might have settled during storage. For potting applications, it is recommended to warm the parts to ~60°C, and then do potting. Any possible air bubbles in mixing or potting process can be removed by vacuum.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions can be obtained by contacting directly to United Adhesives, Inc.

Characteristics

EP1346 is a flexible epoxy adhesive for sealing or encapsulating electronic devices. It is a two-component, flowable, rubber-toughened formulation that cures at elevated temperature to provide strong bonding to various plastics, ceramics and metals. The flexibility reduces thermal stress and provides better thermal cycle performances. EP1346 is dispensable.

Special Features and Benefits

- Flexibility for stress reduction
- Flowable for potting / encapsulation
- Strong fracture toughness
- Strong bonding to various substrates
- · Low bleeding, low volatile

Typical Applications

- · Potting of electronic components
- Encapsulate parts, cavities
- · Bonding of plastics, ceramics and metals
- Attach PCBs, base plates, components
- Seal lids, covers, housings, connectors
- Vibration dampening
- · Thermal stress coupling
- Aerospace & Automotive electronics
- Semiconductor & Telecommunications

EP1346 has a shelf life of at least 12 months when stored in ambient in the originally sealed container.

Storage

EP1346 has a shelf life of at least 12 months when stored in ambient in the originally sealed container. The 'Best use before end' date of each batch appears on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety information

General hygiene regulations should be observed. Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from United Adhesives, Inc.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose. For technical, quality, or product safety questions, please contact directly to United Adhesives Inc.

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