FE5238

Low Temperature Cure Insulating Adhesive

Product Description

FE5238 is a low temperature cure non conductive adhesive (NCA). FE5238 can be deposited by syringe, screen or stencil for mechanical support in component attach in rigid-flex electronics. It is designed to accompany the ACI electrically conductive adhesive (ECA) FE1101 and can be co-cured with FE1101 allowing for high throughput.

Product Benefits

FE5238 can be cured at temperatures below 70oC. The low temperature capabilities of FE5238 allow it to be used with temperature sensitive substrates such as PET and TPU and temperature sensitive components like coin cell batteries. FE5238 has excellent adhesion to many substrates used in rigid-flex electronics such as PET, TPU, polyimide, metals and ceramics.

Typical Properties	
Physical State	Paste
Color	Yellow-White
Viscosity ¹	
1 s ⁻¹	300 Pa·s
10 s ⁻¹	75 Pa∙s
100 s ⁻¹	35 Pa∙s
Density	1.2 g/mL
Percent Solids	>90%
Shelf Life at 0°C ²	12 Months
Pot Life	12 – 16 hours
Weight Loss on Cure	<10%

- ¹ Anton Paar MCR302 at 25 °C
- 2 Storage at different temperatures can adversely affect properties

Typical Processing Parameters	
Deposition	Syringe \ Screen \ Stencil
Curing Time and Temperatures	60 min at 70 °C 10 min at 80 °C ramp to 120 °C at 4 °C/min
Thinner/Diluent	Butyl carbitol acetate
Clean Up Solvents	Acetone, MEK, no alcohol-based solvents
Typical Performance	
Lap Shear Strength	> 800 kPa





Contact ACI

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Caution

Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapors emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate SDS information.

Disclaimer

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