TU5236

Non-Conductive Stretchable Adhesive

Product Description

TU5236 is a stretchable non-conductive epoxy used to bond components in flexible and stretchable systems and to manage thermal expansion mismatches in rigid packaging solutions. The NCA can be used in concert with ACI's conductive adhesives, TE133X series, to create an effective surface mount attachment on flexible and stretchable sub-strates. It can be used with traditional deposition processes and cures with low shrinkage. TU5236 exhibits a unique combination of high compliance, high shear strength, and high adhesion to a broad range of materials.

Product Benefits

TU5236 is a filled non-conductive epoxy used to bond components in flexible and stretchable systems and to manage thermal expansion mismatches in rigid packaging solutions. It can be used with high volume dispensing processes, and cures with low shrinkage. The NCA exhibits a unique combination of high compliance, high shear strength, and high adhesion to a broad range of materials.

Typical Performance	
Lap Shear Strength	> 1,500 kPa
Tg	- 10 °C
Stretch	50%

Typical Properties	
Physical State	Paste
Color	Yellow-White
Viscosity[1]	
1 s^{-1}	37 Pa·s
10 s^{-1}	12 Pa·s
100 s^{-1}	8 Pa·s
Density	1.1 g/mL
Percent Solids	>97%
Shelf Life at -40°C[2]	12 Months
Pot Life:	14 – 16 hours
Weight Loss on Cure	<2%
Weight Loss at 300°C TGA	<3%

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

Typical Processing Parameters	
Deposition	Syringe \ Screen \ Stencil
Recommended Curing Conditions	
60 minutes	140 °C
30 minutes:	150 °C
For all physical properties reported, the materials was processed at 140 °C for 60 minutes.	

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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 MSDS sheet.

Disclaimer

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