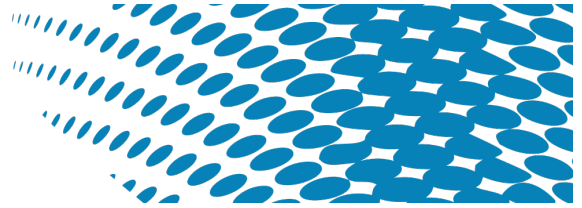


TU5236

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, TS133X series, to create an effective surface mount attachment on flexible and stretchable substrates. 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 as Supplied

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 ²	>97%
Shelf Life at -40°C ³	12 Months
Pot Life	14 - 16 hours
Weight Loss on Cure	<2%
Weight Loss on 300°C TGA	<3%

¹ Measured on Anton Paar MCR302 Rheometer at 10⁻¹ sec shear rate at 25°C

² 150°C for 120 min in box oven

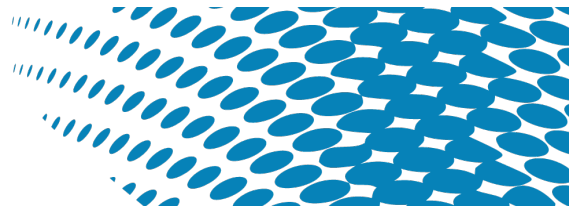
³ Storage at different temperatures can adversely affect properties

Processing

Deposition	Syringe \ Screen \ Stencil
Recommended Curing Conditions	
60 minutes	140 °C
30 minutes	150 °C

For all physical properties reported, the material 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 SDS information.

Disclaimer

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