



APTEK LABORATORIES, INC.

ISO 9001 / AS9100 Certified

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TECHNICAL DATA & INFORMATION

APTEK® 2312-PMF

Premixed-frozen, electrically conductive, low modulus adhesive

PRODUCT DESCRIPTION

APTEK 2312-PMF is a one component, premixed-frozen, silver filled, electrically conductive soft paste adhesive. It is designed to bond many dissimilar substrates and dissipate device generated heat. **APTEK 2312-PMF** is a 100% solids, solvent free system that will not form voids during cure or outgas after being fully cured.

KEY FEATURES AND BENEFITS

- Premixed-frozen and packaged in syringes for convenient dispensing to circuit board
- Low modulus to minimize stress to sensitive components and ceramic substrates
- Low Tg for excellent low temperature cycling and performance
- Excellent substrate adhesion, superior to silicones
- Also available with spacer beads for precise bond line control
- Wide temperature operating range: -50°C - +260°C in an inert atmosphere (i.e. under N₂) and -50°C – +170°C in air.

HANDLING INFORMATION

Work life in syringe after thaw @25°C, 5 cc, minutes >60

APTEK 2312-PMF syringes are shipped in dry ice. Upon receipt, transfer frozen syringes to a storage freezer @-40°C or below.

To thaw remove a syringe from freezer and allow to warm to room temperature. Do not place in oven or microwave- this will shorten use life.

Typical thaw time for 5cc syringe @25°C ambient is approximately 15 minutes.

CURE SCHEDULE*

6 hours @ 85°C

or

3 hours @ 100°C

or

1 ½ hours @ 125°C

*Alternative cure schedules may be possible depending on application requirements.

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