



**EPO-TEK® MED-354-T**  
**Technical Data Sheet**  
**For Reference Only**  
*Biocompatible/Thixotropic Epoxy*  
**ISO 10993-5 Tested/Compliant**

**Date:** November 2019  
**Rev:** VII  
**No. of Components:** Two  
**Mix Ratio by Weight:** 10 : 1  
**Specific Gravity:** Part A: 1.12 Part B: 1.15  
**Pot Life:** 3 Days  
**Shelf Life- Bulk:** Six months at room temperature

**Biocompatible Certified Cure: 150°C / 45 Minutes**

*Alternative biocompatible cure schedules may be possible, but have not been certified. Contact [med@epotek.com](mailto:med@epotek.com) with any questions.*

**NOTES:**

- Container(s) should be kept closed when not in use.
- Filled systems should be stirred thoroughly before mixing and prior to use.
- Performance properties (rheology, conductivity, others) of the product may vary from those stated on the data sheet when bi-pak/syringe packaging or post-processing of any kind is performed. Epoxy's warranties shall not apply to any products that have been reprocessed or repackaged from Epoxy's delivered status/container into any other containers of any kind, including but not limited to syringes, bi-paks, cartridges, pouches, tubes, capsules, films or other packages.
- Component suppliers assure Epoxy that all components are supplied in compliance with ISO 22442. Sales of EPO-TEK® MED-354-T shall accordingly require Epoxy's Standard Specification document to be signed as a technical agreement thereunder.

**Product Description:** EPO-TEK® MED-354-T is a biocompatible, high Tg, thixotropic version of EPO-TEK® MED-354 epoxy. It is electrically and thermally insulating and formulated for medical applications with fiber optics, optoelectronic assemblies, as well as semiconductor packaging.

**Typical Properties:** Cure condition: 150°C / 45 Minutes Different batches, conditions & applications yield differing results.  
 Data below is not guaranteed. To be used as a guide only, not as a specification. \* denotes test on lot acceptance basis

| PHYSICAL PROPERTIES:                    |   |                            |           |
|---|---|----------------------------|-----------|
| * Color (before cure):                  | Part A: Tan   | Part B: Amber              |           |
| * Consistency:                          | Smooth thixotropic paste  |                            |           |
| * Viscosity (23°C) @ 20 rpm:            | 11,000-20,000   | cPs                        |           |
| Thixotropic Index:                      | 3.0   |                            |           |
| * Glass Transition Temp:                | ≥ 95 °C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min) |                            |           |
| Coefficient of Thermal Expansion (CTE): |   |                            |           |
| Below Tg:                               | 54  | x 10 <sup>-6</sup> in/in°C |           |
| Above Tg:                               | 161   | x 10 <sup>-6</sup> in/in°C |           |
| Shore D Hardness:                       | 80  |                            |           |
| Lap Shear @ 23°C:                       | > 2,000   | psi                        |           |
| Die Shear @ 23°C:                       | ≥ 15  | Kg                         | 5,334 psi |
| Degradation Temp:                       | 421 °C  |                            |           |
| Weight Loss:                            |   |                            |           |
| @ 200°C:                                | 0.24  | %                          |           |
| @ 250°C:                                | 0.52  | %                          |           |
| @ 300°C:                                | 1.10  | %                          |           |
| Suggested Operating Temperature:        | < 350 °C (Intermittent)   |                            |           |
| Storage Modulus:                        | 442,736   | psi                        |           |
| * Particle Size:                        | ≤ 20  | microns                    |           |

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**This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.**

**EPOXY TECHNOLOGY, INC.**

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