

EPO-TEK® MED-301

Technical Data Sheet For Reference Only

Biocompatible/Spectrally Transparent Epoxy

ISO 10993 Tested/Fully Compliant

Date:February 2018Rev:IINo. of Components:TwoMix Ratio by Weight:20 : 5Specific Gravity:Part A: 1.15Pot Life:1-2 HoursShelf Life- Bulk:One year at room temperature

NOTES:

Refractive Index:

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.

• Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.

• TOTAL MASS SHOULD NOT EXCEED 25 GRAMS

Product Description: EPO-TEK® MED-301 is a biocompatible, spectrally transparent, very low viscosity, room temperature curing epoxy. Additional characteristics are: self-leveling, short pot-life, and ease of application, either by dispensing or manual operation. EPO-TEK® MED 301 is used often in molding headers in pacemakers, cochlear implants and neurostimulator implants, as well as bonding in many other types of medical devices. When longer pot-life, lower stress and large-scale manufacturing is needed, EPO-TEK® MED 301-2 can usually be interchanged.

Typical Properties: Cure condition: 65°C / 1 Hour 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: Clear/Colorless Part B: Clear/Colorless		
* Consistency:		Pourable liquid		
* Viscosity (23°C) @ 100 rpm:		100-200	cPs	
Thixotropic Index:		N/A		
* Glass Transition Temp:		≥ 65	°C (D	ynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):				
Bel	low Tg:			^ð in/in°C
Abo	ove Tg:	134	x 10 ⁻	^ð in/in°C
Shore D Hardness:		75		
Lap Shear @ 23°C:		> 2,000	psi	
Die Shear @ 23°C:		≥ 15	Kg	5,334 psi
Degradation Temp:		335	°C	
Weight Loss:				
@	200°C:	0.59	%	
@	250°C:	0.83	%	
@	300°C:	2.23	%	
Suggested Operating Temperature: < 28		< 285	ıl) C°	ntermittent)
Storage Modulus:		420,622	psi	
* Particle Size:		N/A		
OPTICAL PROPERTIES:				
Spectral Transmission: ≥ 98% @ 360-1660		nm		
	≥ 95% @ 1680-2060			
2 95% @ 1080-2000		nm		

nm

1.5193 @589

Biocompatible Certified Cure: 65°C / 1 Hour

Alternative cures are possible, but no certification or testing has been done to support them. Contact techserv@epotek.com with questions.