



**Manufacturer:**  
Epoxy Technology

**Product Name:**  
EPO-TEK® 323LP High Temperature Epoxy, Heat Cure (15g)

**Manufacturer Part Number:**  
ET323LP-15G

▶ [Click here for more details on the EPO-TEK® 323LP High Temperature Epoxy, Heat Cure \(15g\)](#)



## EPO-TEK® 323LP

**Technical Data Sheet**  
For Reference Only  
*Optical Epoxy*

**Date:** February 2021  
**Rev:** XI  
**No. of Components:** Two  
**Mix Ratio by Weight:** 10 : 1  
**Specific Gravity:** Part A: 1.20      Part B: 1.09  
**Pot Life:** 24 Hours  
**Shelf Life- Bulk:** One year at room temperature  
**Shelf Life- Syringe:** One year at -40°C

**Recommended Cure: 150°C / 1 Hour**

Minimum Alternative Cure(s):  
*May not achieve performance properties listed below*  
 90°C / 30 Minutes

**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.

**Product Description:** EPO-TEK® 323LP is a two component, high temperature epoxy designed for semiconductor, hybrid, fiber, and optical applications. It is a longer pot life alternative of EPO-TEK® 353ND.

**Typical Properties:** Cure condition: 150°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 to slight yellow	Part B: Yellow	
* Consistency:	Pourable liquid		
* Viscosity (23°C) @ 50 rpm:	3,500 - 5,000	cPs	
Thixotropic Index:	N/A		
* Glass Transition Temp:	≥ 100 °C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)		
Coefficient of Thermal Expansion (CTE):	Below Tg:	51	x 10 <sup>-6</sup> in/in°C
	Above Tg:	185	x 10 <sup>-6</sup> in/in°C
Shore D Hardness:	88		
Lap Shear @ 23°C:	> 2,000	psi	
Die Shear @ 23°C:	≥ 20	Kg	7,112 psi
Degradation Temp:	413	°C	
Weight Loss:	@ 200°C:	0.31	%
	@ 250°C:	0.46	%
	@ 300°C:	0.85	%
Suggested Operating Temperature:	< 300 °C (Intermittent)		
Storage Modulus:	444,110	psi	
Particle Size:	N/A		
ELECTRICAL AND THERMAL PROPERTIES:			
Thermal Conductivity:	N/A		
Volume Resistivity @ 23°C:	≥ 3 x 10 <sup>12</sup>	Ohm-cm	
Dielectric Constant (1KHz):	2.62		
Dissipation Factor (1KHz):	0.003		
OPTICAL PROPERTIES @ 23°C:			
Spectral Transmission:	≥ 94% @ 820-1,620	nm	
	≥ 90% @ 640-800	nm	
Refractive Index:	1.5704 @ 589 nm		

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.

**Contact the professionals at Fiber Optic Center for a quote or to get more details.**

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*Product specifications and data are subject to change without notice.*



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<b>EPO-TEK® 323LP Advantages &amp; Suggested Application Notes:</b>
<ul style="list-style-type: none"><li>● 24 hour pot life to promote mass production usage. It has an amber color change upon cure.</li><li>● Semiconductor:<ul style="list-style-type: none"><li>○ Wafer to wafer bonding of CSP; fabrication of MEMs devices; flip chip underfill.</li></ul></li><li>● Hybrid:<ul style="list-style-type: none"><li>○ Providing near hermetic seals and UHV seals in sensor devices, resisting high temperature packaging.</li><li>○ Down-Hole petrochemical fiber optic sensors, resisting &gt;200°C field conditions.</li></ul></li><li>● Fiber optic adhesive designed to meet Telecordia 1221:<ul style="list-style-type: none"><li>○ Sealing fiber into ferrules, transmitting light in the optical pathway from 800-1,550 nm range.</li><li>○ Fiber component packaging; adhesive for active alignment of optics, environmental seal of opto-package, V-groove arrays.</li></ul></li><li>● Electronic Assembly:<ul style="list-style-type: none"><li>○ Used as dielectric layer in the fabrication of capacitors; laminating PZT piezoelectrics.</li><li>○ Impregnating and insulating copper coil windings in motors and inductor coils. Bonding ferrite cores and magnets.</li></ul></li></ul>

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