



Manufacturer: Epoxy Technology

Product Name: EPO-TEK® OG116-31 High Tg Epoxy, UV & Heat Cure (8oz)

Manufacturer Part Number: OG116-31-80Z

Click here for more details on the EPO-TEK® OG116-31 High Tg Epoxy, UV & Heat Cure (8oz)



Date: August 2021 No. of Components: Mix Ratio by Weight: Specific Gravity: Pot Life: Shelf Life- Bulk: Shelf Life- Syringe:

Rev: XII Sinale N/A 1.20 N/A One year at room temperature One year at room temperature

EPO-IEK OG116-31 Technical Data Sheet For Reference Only UV Cure Optical Epoxy		
	Recommended Cure	
	Iron-Doped Mercury Flood Lamp 100 mW/cm ² @ 240-365 nm	> 30 sec.
	Alternative Cures*	
	Iron-Doped Mercury Spot Lamp	> 5 min.
	365nm LED Flood Lamp	> 2.5 min.
	Pulsed Mercury Lamp	> 60 sec.
	UV Cure is complete after 24 hours from	
	UV Exposure	
	* Contact Technical Services for application- specific variations	

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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 Products 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® OG116-31 is a single component, UV curable epoxy adhesive and encapsulant, designed for PCB and circuit assembly applications found in semiconductor, computer, medical, and scientific/OEM industries.

Typical Properties: Cure condition: Varies as required. *denotes test on lot acceptance basis Data below is not guaranteed. То be used as a guide only, not as a specification. Different batches, conditions & applications yield differing results

PHYSICAL PROPERTIES:			
Cloudy White			
Viscous Liquid			
20,000-30,000 cPs			
1.3			
≥115 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)			
CTE):			
Tg: 41 x 10 ⁻⁶ in/in°C			
Tg: 170 x 10 ⁻⁶ in/in°C			
83			
Die Shear:			
≥10 Kg 3,556 psi			
27.8 Kg 9,885.7 psi			
27.1 Kg 9,636.8 psi			
409 °C			
°C 0.30 %			
°C 0.68 %			
°C 1.18 %			
< 300 °C (Intermittent)			
263,581 psi			
≤ 20 microns			
OPTICAL PROPERTIES @ 23°C:			
≥ 96% @ 660-1,640 nm			
≥ 92% @ 500 nm			
1.5665 @ 589 nm			
1.5842 @ 589 nm			

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This information is based on data and tests bel eved to be accurate. Epoxy Technol logy, 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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EPO-TEK[®] OG116-31 Advantages & Suggested Application Notes:

- Viscosity/rheology adapted to high volume syringe needle dispensing with no tailing.
- Versatility in cure. Product responds to a broad range of UV light, and secondary thermal post-curing.
- Suggested applications:
- Semiconductor: COB glob top covering IC's and wire bonds; glob top dam; encapsulating and sealing; adhesion to FR4, Kapton, silicon.
- Fiber Optic: making fiber optic pigtails; active alignment of optics; adhesion to many types of glass, metals, ceramics and plastics.
- ◊ Opto-electronic:
 - Perimeter/main seal for LCD's, compatible with VAN liquid crystal for LCoS devices.
 - Adhesive technology described in Technical Paper # 55 http://www.epotek.com/technical-papers.asp
- High Tg and low outgassing are indicative of its high temperature performance.

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