

## **Product Information Sheet**

## EPO-TEK® OG142-95

Date: September 2019 Rev: V

Material Description: EPO-TEK® OG142-95 is a single component, low viscosity, UV curable epoxy for adhesive sealing and

encapsulating fiber optic and optoelectronic packaging applications. It is a replacement version of EPO-

TEK® OG142-17 with better bonding strength and moisture resistance.

Number of Components: Single
Mix Ratio by Weight: N/A
Specific Gravity: 1.17
Pot Life: N/A

Shelf Life: One year at room temperature

Shelf Life- Syringe: Six months refrigerated

Recommended Cure		
Iron-Doped Mercury Flood Lamp 100 mW/cm <sup>2</sup> @ 240-365 nm	> 30 sec.	
Alternative Cures*		
Iron-Doped Mercury Spot Lamp	> 90 sec.	
365nm LED Flood Lamp	> 90 sec.	
Pulsed Mercury Lamp	> 60 sec.	
UV Cure is complete after 24 hours from UV		
Exposure		

 Contact Technical Services for applicationspecific variations

## **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..
- Thermal post-cure beneficial contact techserv@epotek.com for recommendations.

MATERIAL CHARACTERISTICS: Cure condition: Varies as required \*Testing on lot acceptance basis Data below is not guaranteed.

To be used as a guide only, not as a specification. Different batches, conditions and applications yield differing results.

PHYSICAL PROPERTIES:				
* Color (before cure):	Clear/Colorless			
* Consistency:	Viscous liquid			
* Viscosity (23°C) @ 100 rpm:	300 - 700	300 - 700 cPs		
Thixotropic Index:	N/A			
* Glass Transition Temp:	≥ 100	≥ 100 °C (Dynamic Cure:20-200°C; Ramp -10-200°C @ 20°C/Min)		
Coefficient of Thermal Expansion (CTE):				
	J	x 10 <sup>-6</sup> in/in°C		
	Above Tg: 162	x 10 <sup>-6</sup> in/in°C		
Shore D Hardness:	82			
Die Shear:	≥ 15	Kg / 5,334 psi		
Degradation Temp:	357	°C		
Weight Loss:	<b>@ 200°C</b> 0.39	%		
	<b>@ 250°C</b> 1.18	%		
	<b>@ 300°C</b> 3.09	%		
Suggested Operating Temper	erature: < 300	°C (Intermittent)		
Storage Modulus:	520,650	psi		

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	≥ 97% @ 580-1,660 nm	
Refractive Index (uncured):	1.4924 @ 589 nm	
Refractive Index (cured):	1.5123 @ 589 nm	