

Product Information Sheet EPO-TEK[®] OG142-95

Date: September 2023 Material Description:	Rev: VI EPO-TEK® OG142-95 is a single component, low viscosity, UV curable epoxy for adhesive si encapsulating fiber optic and optoelectronic packaging applications. It is a replacement version TEK [®] OG142-17 with better bonding strength and moisture resistance.		
Number of Components:	Single	Recommended Cure	
Mix Ratio by Weight: Specific Gravity:	N/A 1.17	Iron-Doped Mercury Flood Lamp 100 mW/cm ² @ 240-365 nm	> 30 sec.
Pot Life:	N/A	Alternative Cures*	
Shelf Life:	One year at room temperature	Iron-Doped Mercury Spot Lamp 365nm LED Flood Lamp Pulsed Mercury Lamp	> 90 sec. > 90 sec. > 60 sec.
<u>NOTES:</u>		UV Cure is complete after 24 hours from UV Exposure * Contact Technical Services for application-	
	sed when not in use. I thoroughly before mixing and prior to use. gy, conductivity, others) of the Products may vary from tl	specific variations	/syringe pack

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	cPs	
Thixotropic Index:		N/A		
* Glass Transition Temp:		≥ 100	° С (Dynamic Cure:20-200°С; Ramp -10-200°С @ 20°С/Min)	
Coefficient of Thermal Expa	ansion (CTE):			
	Below Tg:		x 10 ⁻⁶ in/in°C	
	Above Tg:	162	x 10 ⁻⁶ in/in°C	
Shore D Hardness:		82		
Die Shear:		≥ 15	Kg / 5,334 psi	
Degradation Temp:		357	°C	
Weight Loss:	@ 200°C	0.39	%	
	@ 250°C	1.18	%	
	@ 300°C	3.09	%	
Suggested Operating Temperature:		< 300	°C (Intermittent)	
Storage Modulus:		520,650	psi	
OPTICAL PROPERTIES @ 23°	C:			
Spectral Transmission:	≥ 97% @ 580-1,660 nm		nm	
Refractive Index (uncured):	1.4924 @ 589 nm		nm	
Refractive Index (cured):	1.5123 @ 589 nm			

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.

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