



Product Information Sheet

MATERIAL ID: EPO-TEK® OG154-1 (formerly 90-108-5)
Date: Sep 2013
Rev: VII
Material Description: Single component, UV curable epoxy for adhesive sealing and encapsulating applications found in semiconductor, electro-optics, fiber optics, medical and scientific/OEM industries. Replacement for EPO-TEK® OG154.
Number of Components: Single
Mix Ratio by Weight: N/A
Recommended Cure: 100mW/cm² @ 240-365 nm for >2 minutes, depending on thickness
- under an F-type Mercury lamp
Specific Gravity: 1.1
Pot Life: N/A
Shelf Life: One year refrigerated

NOTE: Container(s) should be kept closed when not in use. Filled systems should be stirred thoroughly before mixing and prior to use.

MATERIAL CHARACTERISTICS: To be used as a guide only, not as a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results; Cure condition: varies as required
* denotes test on lot acceptance basis

PHYSICAL PROPERTIES:

* Color (before cure):	Clear/Colorless	
* Consistency	Pourable liquid	
* Viscosity (23°C): @ 5 rpm	26,000 - 34,000 cPs	
Thixotropic Index:	N/A	
* Glass Transition Temp:	> 100 °C	(Post-Cure Dynamic Scan: 20-200°C; Ramp -10-200°C @ 20°C/Min)
Coefficient of Thermal Expansion (CTE):		
Below Tg:	55 x 10 ⁻⁹ in/in°C	
Above Tg:	238 x 10 ⁻⁹ in/in°C	
Shore D Hardness:	80	
Lap Shear @ 23°C:	N/A	
Die Shear @ 23°C:	>10 Kg	3,400 psi
Degradation Temp:	379 °C	
Weight Loss:		
@ 200°C	0.17 %	
@ 250°C	0.66 %	
@ 300°C	1.54 %	
Operating Temp:		
Continuous:	- 55°C to	200 °C
Intermittent:	- 55°C to	300 °C
Storage Modulus:	265,655 psi	
* Particle Size:	N/A	

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	>97% @ 500 - 1660 nm
Refractive Index (uncured):	1.5561 @ 589 nm
Refractive Index (cured):	1.5692 @ 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.