Preliminary Product Information Sheet

(Note: These are typical properties to be used as a guide only, not a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results.)

MATERIAL ID: **EPO-TEK® OG154-1** ***(formerly 90-108-5)***

Date: 8/2009

Rev: IV

Material Description: Single component, UV curable epoxy for adhesive sealing and encapsulating applications found in semicondutor, electro-optics, fiber optics, medical and scientific/OEM industries. Replacement for EPO-TEK® OG154.

Number of Components: Single

Mix Ratio by Weight: N/A

Cure Schedule (minimum): 100mW/cm2 for >2 minutes @ 320-500 nm (depending on thickness)

Specific Gravity: 1.1

Pot Life: N/A

Shelf Life: Six months 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:

PHYSCIAL PROPERTIES:			
Color (before cure):	Clear/Colorless		
Consistency	Pourable liquid		
Viscosity (23°C): @ 5 rpm	31,399	**cPs**	
Glass Transition Temp:	105	**°C**	
Coefficient of Thermal Expansion (CTE):			
Below Tg:	55	**x 10^{-6} in/in°C**	
Above Tg:	238	**x 10^{-6} in/in°C**	
Shore D Hardness:	80		
Die Shear @ 23°C:	14.4	**Kg**	
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**	

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	> 98% @ 560-1620	**nm**
Index of Refraction:	1.5575	**@ 589 nm**

The data above is INITIAL only - it may be changed at anytime, for any reason without notice to anyone. It is provided only as a guide for evaluation/consideration.

*These material characteristics are typical properties that are based on a limited number of samples/batches. All properties are based on the cure indicated above. Some properties may vary as manufactured quantities are scaled up to commercialized production levels.

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