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® OG142-95** ***(formerly 90-95-1)***

Date: Sep 2013
Rev: IV

Material Description: Single component, low viscosity, UV curable epoxy for adhesive sealing and encapsulating fiber optic and optoelectronic packaging application. Replacement version of EPO-TEK® OG142-17 with better bonding strength and moisture resistance.

Number of Components: Single
Mix Ratio by Weight: N/A
Recommended Cure: 100mW/cm^2 @ 240-365nm for > 2 minutes, depending on thickness - under an F-type Mercury lamp
Specific Gravity: 1.17
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. Thermal post-cure beneficial - contact techserv@epotek.com for recommendations.

MATERIAL CHARACTERISTICS:

PHYSCIAL PROPERTIES:		
Color (before cure):	Clear/Colorless	
Consistency	Pourable liquid	
Viscosity (23°C): @ 100 rpm	534	**cPs**
Glass Transition Temp:	N/A	
Coefficient of Thermal Expansion (CTE):		
Below Tg:	50	**x 10^{-6} in/in°C**
Above Tg:	162	**x 10^{-6} in/in°C**
Shore D Hardness:	82	
Die Shear @ 23°C:	15.2	**Kg**
Degradation Temp:	358	**°C**
Weight Loss:		
@ 200°C	0.39	**%**
@ 250°C	1.18	**%**
@ 300°C	3.09	**%**
Operating Temp:		
Continuous:	- 55**°C to** 200**°C**	
Intermittent:	- 55**°C to** 300**°C**	
Storage Modulus:	520,650	**psi**

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	≥ 97% @ 580 - 1680	**nm**
Refractive Index (uncured):	1.4924	**@ 589 nm**
Refractive Index (cured):	1.5123	**@ 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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