



Preliminary Product Information Sheet

EPO-TEK® OG147-51 (formerly 90-76-2)

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.

Date: September 2017
Rev: V
No. of Components: Single
Mix Ratio by Weight: N/A
Specific Gravity: 1.30
Pot Life: 28 Days
Shelf Life- Bulk: One year refrigerated

Recommended Cure: 120°C / 1 Hour

Minimum Alternative Cure(s):
May not achieve performance properties listed below
150°C / 5 Minutes
125°C / 20 Minutes

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 product 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.

Product Description: A single component, semi-flexible epoxy adhesive designed for low stress bonding of fiber optic component applications. It is a thixotropic adhesive which can be applied by dispensing or screen printing techniques. It has a very long pot-life, capable of fast curing techniques.

MATERIAL CHARACTERISTICS*:

PHYSICAL PROPERTIES:		Cure condition: 120°C / 1 Hour	
Color (before cure):		Black	
Consistency:		Smooth paste	
Viscosity (23°C) @ 100 rpm:		1,864	cPs
Thixotropic Index:		2.7	
Glass Transition Temp:		33	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):	Below Tg:	57	x 10 ⁻⁶ in/in°C
	Above Tg:	178	x 10 ⁻⁶ in/in°C
Shore D Hardness:		84	
Lap Shear @ 23°C:			psi
Die Shear @ 23°C:		17	Kg
Degradation Temp:		376	°C
Weight Loss:	@ 200°C:	< 0.05	%
	@ 250°C:	0.15	%
	@ 300°C:	0.75	%
Suggested Operating Temperature:		< 300	°C (Intermittent)
Storage Modulus:		142,857	psi
Particle Size:		≤ 20	microns

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	< 20% @ 300-1600	nm
Refractive Index:	N/A	

The data above is INITIAL only - it may be changed at any time, 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.