



## Preliminary Product Information Sheet

### **EPO-TEK® OE145-7 (formerly 122-148-2)**

*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 2018  
**Rev:** II  
**No. of Components:** Two  
**Mix Ratio by Weight:** 100 : 30  
**Specific Gravity:** Part A: 1.18 Part B: 0.97  
**Pot Life:** < 2 Hours  
**Shelf Life- Bulk:** Six months at -40°C

**Recommended Cure: 65°C / 3 Hours**

Minimum Alternative Cure(s):  
*May not achieve performance properties listed below*  
80°C / 1 Hour  
23°C / 24 Hours

#### **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.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.
- **TOTAL MASS SHOULD NOT EXCEED 25 GRAMS**

**Product Description:** Thixotropic version of EPO-TEK® 302-3M designed to meet European regulatory requirements. It is a two component epoxy used for optical, fiber optic, and semiconductor applications. The epoxy is good for adhesive joining, sealing, potting, or as a coating. It also exhibits enhanced adhesion to metals and glass.

#### **MATERIAL CHARACTERISTICS\*:**

<b>PHYSICAL PROPERTIES:</b>	<b>Cure condition: varies as required</b>	
Color (before cure):	Part A: Opaque/Milky	Part B: Clear/Yellow
Consistency:	Thixotropic liquid	
Viscosity (23°C) @ 100 rpm:	1,706	cPs
Thixotropic Index:	4.2	
Glass Transition Temp:	69	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -40-200°C @20°C/Min)
Shore D Hardness:	81	
Die Shear @ 23°C:	23.1	Kg
Degradation Temp:	358	°C
Weight Loss:		
	@ 200°C:	0.10 %
	@ 250°C:	0.52 %
	@ 300°C:	1.49 %
Suggested Operating Temperature:	< 300	°C (Intermittent)
Particle Size:	N/A	

<b>OPTICAL PROPERTIES @ 23°C:</b>		
Spectral Transmission:	≥ 94% @ 680-2080	nm
Refractive Index:	1.5424 @589	nm

**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.