Preliminary Product Information Sheet

EPO-TEK® OJ2145-1 (*formerly 112-91*)

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:	III
No. of Components:	Two
Mix Ratio by Weight:	100 : 45
Specific Gravity:	Part A: 1.21 Part B: 0.97
Pot Life:	< 30 Minutes
Shelf Life- Bulk:	One year at room temperature

Recommended Cure: 65°C / 3 Hours

Minimum Alternative Cure(s):
May not achieve performance properties listed below
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.
- *Contact techserv@epotek.com for alternatives designed to meet European regulatory requirements.*

Product Description: Two component, slightly thixotropic alternative to 302-3M. It is an epoxy adhesive/encapsulant designed for resisting moisture and damp heat in glob top applications.

MATERIAL CHARACTERISTICS*:

PHYSICAL PROPERTIES:	**Cure condition:** 65°C / 3 Hours	
Color (before cure):	Part A: Cloudy Part B: Clear/Colorless	
Consistency:	Viscous liquid	
Viscosity (23°C) @ 100 rpm:	1,756	cPs
Thixotropic Index:	1.4	
Glass Transition Temp:	71	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Shore D Hardness:	79	
Die Shear @ 23°C:	22	Kg
Degradation Temp:	341	°C
Weight Loss:		
@ 200°C:	1.39	%
@ 250°C:	3.14	%
@ 300°C:	5.38	%
Suggested Operating Temperature:	< 250	°C (Intermittent)
Particle Size:	≤ 20	microns

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	≥ 94% @ 560 - 800	nm
	≥ 97% @ 820 - 1620	nm
Refractive Index:	1.5468 @ 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.

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