

Preliminary Product Information Sheet

EPO-TEK® UD1927 (formerly 113-92-7A)

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: January 2017 Rev: II

Material Description: A single component, low viscosity UV curable epoxy for adhesive sealing and encapsulating fiber

optic and optoelectronic packaging application.

Number of Components: Single Mix Ratio by Weight: N/A Specific Gravity: 1.17 Pot Life: N/A

Shelf Life- Bulk: One year refrigerated

Recommended Cure					
Iron-Doped Mercury Flood Lamp 100 mW/cm ² @ 240-365 nm	> 2 min.				
Alternative Cures*					
Iron-Doped Mercury Spot Lamp	> 6 min.				
365nm LED Flood Lamp	> 10 min.				
Pulsed Mercury Lamp	> 3 min.				
UV Cure is complete after 24 hours					
from UV Exposure					

 Contact Technical Services for application-specific variations

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) may vary from those stated below when syringe packaging and/or
 post-processing is required.
- Thermal post-cure beneficial contact techserv@epotek.com for recommendations.

MATERIAL CHARACTERISTICS:

PHYSICAL PROPERT	IES:	Cure Condition:	var	ies as required	
Color (before cure):		Clear			
Consistency:		Pourable liquid			
Viscosity (23°C) @ 1	00 rpm:	546	cPs	3	
Thixotropic Index:		N/A			
Glass Transition Temp:		162	°С	°C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)	
Shore D Hardness:		80			
Die Shear:					
UV Cure		10	Kg	3,556 PSI	
UV Cure + 23	3°C/24 Hours	10	Kg	3,556 PSI	
UV Cure + 80	°C/1 Hour	10	Kg	3,556 PSI	
UV Cure + 12	20°C/1 Hour	18.5	Kg	6,578 PSI	
Degradation Temp:		380	°C		
Weight Loss:	@ 200°C	0.19	%		
	@ 250°C	0.46	%		
	@ 300°C	1.18	%		
Suggested Operatin	g Temperature:	< 325	°C	(Intermittent)	

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	≥96% @ 420 - 480 nm	
	≥99% @ 480 - 1680 nm	
Index of Refraction:	1.5073 @ 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.