Preliminary Product Information Sheet

EPO-TEK® HYB-297-RT PMF Syringe (*formerly 121-29-7*)

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: June 2018
Rev: II
No. of Components: Single
Mix Ratio by Weight: N/A
Specific Gravity: 1.12
Pot Life: 4 Hours
Shelf Life- Bulk: Six months at -40°C

Recommended Cure:
100 mW/cm2 for 10 seconds @240-365 nm + 80°C / 3 Hours

Minimum Alternative Cure(s):
May not achieve performance properties listed below
100 mW/cm2 for 10 seconds @365 nm + 23°C / 3 Days

NOTES:
- To prevent gelation, keep containers away from light sources.
- 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.
- Thermal post-cure beneficial – contact techserv@epotek.com for recommendations.

Product Description: A single component epoxy for fiber optic and semiconductor applications. It is designed to have similar cured performance to EPO-TEK® 301-2, but has been modified to allow for initial UV tacking to simplify the production process and save production time.

MATERIAL CHARACTERISTICS*:

PHYSICAL PROPERTIES:	**Cure condition:** varies as required	
Color (before cure):	Clear	
Consistency:	Pourable liquid	
Viscosity (23°C) @ 100 rpm:	323	cPs
Thixotropic Index:	N/A	
Glass Transition Temp:	63	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Shore D Hardness:	79	
Die Shear @ 23°C:	13.4	Kg
Degradation Temp:	350	°C
Weight Loss:		
@ 200°C:	0.25	%
@ 250°C:	2.10	%
@ 300°C:	4.79	%
Suggested Operating Temperature:	< 300	°C (Intermittent)

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	≥ 99% @ 400-1600	nm
Refractive Index:	1.5182 @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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