



Preliminary Product Information Sheet

EPO-TEK® 301-2FL-MR

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: II
No. of Components: Two
Mix Ratio by Weight: 100 : 45
Specific Gravity: Part A: 1.07 Part B: 0.95
Pot Life: 9 Hours
Shelf Life- Bulk: One year at room temperature

Recommended Cure: 80°C / 3 Hours

Minimum Alternative Cure(s):
May not achieve performance properties listed below
23°C / 3 Days

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 two component, optical and semiconductor grade epoxy. It is a version of EPO-TEK® 301-2FL with enhanced flexibility and compressibility.

MATERIAL CHARACTERISTICS*:

PHYSICAL PROPERTIES:		Cure condition: 80°C / 3 Hours	
Color (before cure):		Part A: Clear/Colorless	Part B: Clear/Colorless
Consistency:		Pourable liquid	
Viscosity (23°C) @ 100 rpm:		107	cPs
Thixotropic Index:		N/A	
Glass Transition Temp:		39	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Shore D Hardness:		70	
Die Shear @ 23°C:		14	Kg
Degradation Temp:		345	°C
Weight Loss:			
	@ 200°C:	0.24	%
	@ 250°C:	0.41	%
	@ 300°C:	1.30	%
Suggested Operating Temperature:		< 250	°C (Intermittent)
Particle Size:		N/A	

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	≥ 99%	@ 400-1600 nm
Refractive Index:	1.5083	@ 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.