

Product Information Sheet

EPO-TEK® 301-2FL-T

Date:	March 2017	Rev:	VI
Material Description:	EPO-TEK® 301-2FL-T is a two component, optical grade, flexible epoxy resin. It is a thixotropic version of EPO-TEK® 301-2FL.		
Number of Components:	Two		
Mix Ratio by Weight:	100 : 34		
Recommended Cure:	80°C / 3 Hours		
Specific Gravity:	Part A: 1.16	Part B: 0.95	
Pot Life:	5 Hours		
Shelf Life:	One year at room temperature		

Minimum Alternative Cure(s):
may not achieve performance properties below:
 23°C / 72 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) may vary from those stated below when syringe packaging and/or post-processing is required.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.

MATERIAL CHARACTERISTICS: *Cure condition: 80°C/ 3 Hours *Testing on lot acceptance basis Data below is not guaranteed. To be used as a guide only, not as a specification. Different batches, conditions and applications yield differing results.*

PHYSICAL PROPERTIES:

* Color (before cure):	Part A: Clear/Colorless	Part B: Clear/Colorless
* Consistency:	Slightly thixotropic liquid	
* Viscosity (23°C) @ 100 rpm:	300 - 600 cPs	
Thixotropic Index:	2.6	
* Glass Transition Temp:	≥40 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)	
Shore D Hardness:	70	
Die Shear @ 23°C:	≥ 5 Kg	1,778 psi
Degradation Temp:	336 °C	
Weight Loss:	@ 200°C	0.84 %
	@ 250°C	1.24 %
	@ 300°C	3.26 %
Suggested Operating Temperature:	< 250 °C (Intermittent)	
* Particle Size:	≤ 20 microns	

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	≥ 97% @ 380 - 2,100 nm
Refractive Index:	1.5086 @ 589 nm

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