



Preliminary Product Information Sheet

(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.)

MATERIAL ID: EPO-TEK® 301-2FL-T (formerly 108-10)

Date: May 2013

Rev: IV

Material Description: A two component optical grade flexible epoxy resin. This 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

NOTE: Container(s) should be kept closed when not in use. Filled systems should be stirred thoroughly before mixing and prior to use.

MATERIAL CHARACTERISTICS:

PHYSICAL PROPERTIES:

Color (before cure):	Part A: Cloudy/Colorless	Part B: Cloudy/Colorless
Consistency	Slightly thixotropic liquid	
Viscosity (23°C): @ 100 rpm	492 cPs	
Thixotropic Index:	2.6	
Glass Transition Temp:	46 °C	
Shore D Hardness:	70	
Lap Shear @ 23°C:	psi	
Die Shear @ 23°C:	9 Kg	
Degradation Temp:	336 °C	
Weight Loss:	@ 200°C	0.84 %
	@ 250°C	1.24 %
	@ 300°C	3.26 %
Operating Temp:		
	Continuous:	- 55°C to 150°C
	Intermittent:	- 55°C to 250°C

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	≥ 97% @ 380 - 2100 nm
Index of Refraction:	1.5484 @ 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.