



Manufacturer:
Epoxy Technology

Product Name:
EPO-TEK® 301-2FL Clear Epoxy, Heat Cure (8oz)

Manufacturer Part Number:
ET301-2FL-8OZ

▶ [Click here for more details on the EPO-TEK® 301-2FL Clear Epoxy, Heat Cure \(8oz\)](#)



EPO-TEK® 301-2FL

**Technical Data Sheet
For Reference Only**
Low Stress, Optical Epoxy

Date: August 2021
Rev: XI
No. of Components: Two
Mix Ratio by Weight: 100 : 35
Specific Gravity: Part A: 1.15 Part B: 0.95
Pot Life: 10 Hours
Shelf Life- Bulk: One year at room temperature
Shelf Life- Syringe: Six months at -40°C

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.
- If product crystallizes in storage, place container in warm oven until crystallization disappears.

Product Description: EPO-TEK® 301-2FL is a two component optical and semiconductor grade epoxy resin. It is a more flexible version of EPO-TEK® 301-2.

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

PHYSICAL PROPERTIES:			
	Part A: Clear/Colorless	Part B: Clear/Colorless	
* Color (before cure):	Pourable liquid		
* Consistency:			
* Viscosity (23°C) @ 100 rpm:	100 - 200	cPs	
Thixotropic Index:		N/A	
* Glass Transition Temp:	≥ 45	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)	
Coefficient of Thermal Expansion (CTE):			
Below Tg:	56	x 10 ⁻⁶ in/in°C	
Above Tg:	211	x 10 ⁻⁶ in/in°C	
Shore D Hardness:	70		
Lap Shear @ 23°C:	> 2,000	psi	
Die Shear @ 23°C:	≥ 10	Kg 3,556 psi	
Degradation Temp:	325	°C	
Weight Loss:			
@ 200°C:	0.50	%	
@ 250°C:	0.96	%	
@ 300°C:	3.52	%	
Suggested Operating Temperature:	< 250	°C (Intermittent)	
Storage Modulus:	318,685	psi	
Ion Content:	Cl ⁻ : 105 ppm	Na ⁺ :	58 ppm
	NH ₄ ⁺ : 8 ppm	K ⁺ :	19 ppm
Particle Size:	N/A		

ELECTRICAL AND THERMAL PROPERTIES:		
Thermal Conductivity:	N/A	
Volume Resistivity @ 23°C:	≥ 0.6 x 10 ¹²	Ohm-cm
Dielectric Constant (1KHz):	3.54	
Dissipation Factor (1KHz):	0.013	

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	≥ 97% @ 1,000-1,600	nm
	≥ 99% @ 400-1,000	nm
Refractive Index:	1.5102 @ 589 nm	

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This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Product specifications and data are subject to change without notice.
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