

Number of Components:	Two	Minimum Bond Line Cure Schedule*:	
Mix Ratio By Weight:	1:1	23°C	2 Hours
Specific Gravity:			
Part A	1.20		
Part B	0.90		
Pot Life:	10 Minutes		
Shelf Life:	10 Months at room temperature		

Note: Container(s) should be kept closed when not in use. *Please see Applications Note available on our website.
- TOTAL MASS SHOULD NOT EXCEED 25 GRAMS -

Product Description:

EPO-TEK[®] 302 is a two component, fast-gelling, room temperature curing epoxy, designed for electronic, optical, medical, and general applications.

EPO-TEK[®] 302 Advantages & Application Notes:

- Due to its versatility, it may be used to adhere, seal, pot or encapsulate.
- Allows for % transmission in VIS and NIR range. It can be used as an adhesive in the optical pathway of light.
- Convenient and easy to use 1:1 mix ratio allows for hand, meter mix, or specialty packaging.
- Suggested applications:
 - Field Assembly: mix and cure in the field. Fast gelling and curing in 2-3 hours is accomplished.
 - Electronics: rapid prototyping of parts with fast curing epoxy – no need for oven cycle times.
 - Optics: active alignment of optics such as lenses, prisms, diodes, filters, etc. to opto-circuit.
 - Fiber Optics: “field curing” or field assembly of connectors and couplers; also suggested for fiber optic splicing.
 - Medical: adhesion to most metals, plastics, ceramics, and glasses found in tubing, substrates or housing.
 - General: arts and crafts repair, restoration, and hobbyists.

Typical Properties: *(To be used as a guide only, not as a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results; Cure condition: varies as required; * denotes test on lot acceptance basis)*

Physical Properties:	
*Color: Part A: Clear/Colorless Part B: Clear/Colorless	Die Shear Strength @ 23°C: ≥ 5 Kg / 1,700 psi
*Consistency: Pourable liquid	Degradation Temp. (TGA): 261°C
*Viscosity (@ 20 RPM/23°C): 5,000 – 10,000 cPs	Weight Loss:
Thixotropic Index: N/A	@ 200°C: 2.68%
*Glass Transition Temp.(Tg): ≥ 40°C (Dynamic Cure	@ 250°C: 8.39%
20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)	@ 300°C:
Coefficient of Thermal Expansion (CTE):	Operating Temp:
Below Tg: 52 x 10 ⁻⁶ in/in/°C	Continuous: - 55°C to 100°C
Above Tg: 191 x 10 ⁻⁶ in/in/°C	Intermittent: - 55°C to 200°C
Shore D Hardness: 73	Storage Modulus @ 23°C: 153,918 psi
Lap Shear Strength @ 23°C: 1,756psi	Particle Size: N/A
Optical Properties @ 23°C:	
Index of Refraction @ 23°C: 1.5442 @ 589 nm	Spectral Transmission @ 23°C: > 75% @ 340 - 420 nm
	> 85% @ 440 - 900 nm
	> 88% @ 900 - 1600 nm
Electrical & Thermal Properties:	
Thermal Conductivity: N/A	Volume Resistivity @ 23°C: ≥ 2 x 10 ¹³ Ohm-cm
Dielectric Constant (1KHz): 2.95	Dissipation Factor (1KHz): 0.010

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