

Number of Components:	Two	Minimum Bond Line Cure Schedule*:	
Mix Ratio By Weight:	10:1	150°C	1 Minute
Specific Gravity:		120°C	5 Minutes
Part A	1.11	100°C	10 Minutes
Part B	1.02	80°C	30 Minutes
Pot Life:	3 Hours		
Shelf Life:	Nine months refrigerated		

Note: Container(s) should be kept closed when not in use. For filled systems, mix contents of each container (A & B) thoroughly before mixing the two together. \*Please see Applications Note available on our website.

### Product Description:

EPO-TEK<sup>®</sup> 353ND-T4 is a two component, highly thixotropic epoxy with non-flowing properties and high temperature resistance. This is a higher viscosity version of EPO-TEK<sup>®</sup> 353ND-T for applications needing decreased flow.

### EPO-TEK<sup>®</sup> 353ND-T4 Advantages & Application Notes:

- Suitable for fiber optic, medical grade, circuit assembly applications.
- Recommended for bonding metals, glass, ceramics and many types of plastic.
- High temperature adhesive for hybrids and medical devices; it can resist the 300°C temperature range for long periods of time.
- Used in circuit assembly applications; staking SMDs to PCB, bonding ferrite cores together in copper coil windings, inductor coils and power devices; also suitable for COB glob-top DAM material.
- Alternative product versions available with distinct viscosity ranges - contact Technical Services at [techserv@epotek.com](mailto:techserv@epotek.com) for best recommendation.
- Can be applied by screen printing, spatula, hand held or automatic dispensing equipment.
- Amber color change when properly cured for easy visual ID and inspection.

**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: 150°C/1 Hour; \* denotes test on lot acceptance basis)

Physical Properties:	
*Color: Part A: Tan Part B: Amber	Weight Loss:
*Consistency: Smooth thixotropic paste	@ 200°C: 0.53%
*Viscosity (@ 20 RPM/23°C): 11,000 – 17,000 cPs	@ 250°C: 1.22%
Thixotropic Index: 2.3	@ 300°C: 2.37%
*Glass Transition Temp.(Tg): ≥ 90°C (Dynamic Cure 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)	Operating Temp:
Coefficient of Thermal Expansion (CTE):	Continuous: - 55°C to 225°C
Below Tg: 43 x 10 <sup>-6</sup> in/in/°C	Intermittent: - 55°C to 325°C
Above Tg: 231 x 10 <sup>-6</sup> in/in/°C	Storage Modulus @ 23°C: 559,120 psi
Shore D Hardness: 80	Ions: Cl <sup>-</sup> < ppm
Lap Shear Strength @ 23°C: > 2,000 psi	Na <sup>+</sup> < ppm
Die Shear Strength @ 23°C: ≥ 15 Kg / 5,100 psi	NH <sub>4</sub> <sup>+</sup> < ppm
Degradation Temp. (TGA): 409°C	K <sup>+</sup> < ppm
	*Particle Size: ≤ 20 Microns
Electrical Properties:	
Volume Resistivity @ 23°C: ≥ 4 x 10 <sup>12</sup> Ohm-cm	Dielectric Constant (1KHz): 3.21
	Dissipation Factor (1KHz): 0.003
Thermal Properties:	
Thermal Conductivity: N/A	

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