

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	1.12	100°C	10 Minutes
Part B	1.02	80°C	30 Minutes
Pot Life:	3 Hours		
Shelf Life:	One year 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<sup>®</sup> 353ND-T is a two component, highly thixotropic epoxy with non-flowing properties and high temperature resistance.

### EPO-TEK<sup>®</sup> 353ND-T 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 within the 300°C range for long periods of time.
- Circuit assembly applications; staking SMDs to PCB, bonding ferrite cores together in copper coil windings and inductor coils and power devices; 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.
- EPO TEK<sup>®</sup> 353ND-T 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. Different batches, conditions & applications yield differing results.  
Cure condition: 150°C/1 hour \* denotes test on lot acceptance basis Data below is not guaranteed.*

Physical Properties:	
<p><b>*Color:</b> Part A: Tan Part B: Amber</p> <p><b>*Consistency:</b> Smooth, thixotropic paste</p> <p><b>*Viscosity (@ 20 RPM/23°C):</b> 9,000 – 15,000 cPs</p> <p><b>Thixotropic Index:</b> 3.8</p> <p><b>*Glass Transition Temp.(Tg):</b> ≥ 90°C (Dynamic Cure 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)</p> <p><b>Coefficient of Thermal Expansion (CTE):</b>              Below Tg: 43 x 10<sup>-6</sup> in/in/°C              Above Tg: 231 x 10<sup>-6</sup> in/in/°C</p> <p><b>Shore D Hardness:</b> 80</p> <p><b>Lap Shear Strength @ 23°C:</b> 1,953 psi</p> <p><b>Die Shear Strength @ 23°C:</b> ≥ 15 Kg / 5,100 psi</p> <p><b>Degradation Temp. (TGA):</b> 409°C</p>	<p><b>Weight Loss:</b>              @ 200°C: 0.53%              @ 250°C: 1.22%              @ 300°C: 2.37%</p> <p><b>Operating Temp:</b>              Continuous: - 55°C to 225°C              Intermittent: - 55°C to 325°C</p> <p><b>Storage Modulus @ 23°C:</b> 559,120 psi</p> <p><b>Ions:</b> Cl<sup>-</sup> 471 ppm              Na<sup>+</sup> 143 ppm              NH<sub>4</sub><sup>+</sup> 400 ppm              K<sup>+</sup> 15 ppm</p> <p><b>*Particle Size:</b> D99 &lt; 20 microns</p>
Electrical & Thermal Properties:	
<p><b>Thermal Conductivity:</b> N/A</p> <p><b>Dielectric Constant (1 KHz):</b> 3.21</p>	<p><b>Volume Resistivity:</b> ≥ 4x10<sup>12</sup> Ohm-cm</p> <p><b>Dissipation Factor (1 KHz):</b> 0.003</p>

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