

## Resinlab® EP324E Clear Two Part Epoxy Casting Resin

Category : Polymer , Thermoset , Epoxy , Epoxy Cure Resin , Epoxy Encapsulant, Unreinforced

**Material Notes:**

Resinlab™ EP 324E Clear is a two part unfilled electronic grade epoxy encapsulant designed for medium sized castings. It cures at room temperature to a tough, semi-rigid polymer. It has good wetting and adhesion to most surfaces and is free flowing to penetrate voids and give good air release and a smooth high gloss surface. It has very good resistance to water, acids and bases and most organic solvents. It was especially formulated to a 2A:1B volume mix ratio for use in side-by-side dispensing cartridges and meter/mix and dispense equipment. EP 324E Clear will reach full cure at room temperature within 24 hours. Cure time can be accelerated by the application of heat after product has gelled. Times and temperatures from 1 hour at 65°C to 20 minutes at 100°C are typical for small castings (less than 50 grams). Information Provided by Resinlab L.L.C., an Ellsworth Adhesives Company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Resinlab-EP324E-Clear-Two-Part-Epoxy-Casting-Resin.php](http://www.lookpolymers.com/polymer_Resinlab-EP324E-Clear-Two-Part-Epoxy-Casting-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	Part B
	1.04 g/cc	1.04 g/cc	Mixed
	1.13 g/cc	1.13 g/cc	Part A
Viscosity	500 cP	500 cP	Part B
	2000 cP	2000 cP	Mixed
	3500 cP	3500 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75 - 80	75 - 80	
Tensile Strength, Yield	34.5 MPa	5000 psi	
Elongation at Break	6.0 %	6.0 %	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	0.140 W/m-K	0.972 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Glass Transition Temp, Tg	65.0 °C	149 °F	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+14 ohm-cm	8.00e+14 ohm-cm	
Dielectric Constant	4.2	4.2	
	@Frequency 100 Hz, Temperature 25.0 °C	@Frequency 100 Hz, Temperature 77.0 °F	
Dielectric Strength	16.1 kV/mm	410 kV/in	

Processing Properties	Metric	English	Comments
Pot Life	60 - 120 min	60 - 120 min	Mass: 100g

Descriptive Properties	Value	Comments
Color	Clear (amber)	
Mix Ratio	100:45	Weight
	2:1	Volume

## Contact Songhan Plastic Technology Co.,Ltd.

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