

Date: September 2017
Rev: V
No. of Components: Two
Mix Ratio by Weight: 1 : 1
Specific Gravity: Part A: 1.17 Part B: 0.97
Pot Life: 1 Hour
Shelf Life- Bulk: One year at room temperature

Recommended Cure: 80°C / 2 Hours

Minimum Alternative Cure(s):
May not achieve performance properties listed below
 23°C / 24 Hours

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.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.

Product Description: EPO-TEK® 730-110 is a two component, room temperature-curing, thermally and electrically insulating epoxy. It can be used for adhesive, sealing, potting or encapsulation applications found in semiconductor, electronics, optical and medical devices.

Typical Properties: Cure condition: Varies as required 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:			
* Color (before cure):	Part A: Clear/Colorless	Part B: Clear yellow	
* Consistency:	Pourable liquid		
* Viscosity (23°C) @ 20 rpm:	8,000-12,000	cPs	
Thixotropic Index:	N/A		
* Glass Transition Temp:	≥ 50	°C	(Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):			
	Below Tg:	61	x 10 ⁻⁶ in/in°C
	Above Tg:	192	x 10 ⁻⁶ in/in°C
Shore D Hardness:	76		
Lap Shear @ 23°C:	> 2,000	psi	
Die Shear @ 23°C:	≥ 10	Kg	3,556 psi
Degradation Temp:	343	°C	
Weight Loss:			
	@ 200°C:	1.01	%
Suggested Operating Temperature:	< 250	°C	(Intermittent)
Storage Modulus:	129,916	psi	
* Particle Size:	N/A		

ELECTRICAL AND THERMAL PROPERTIES:			
Thermal Conductivity:	N/A		
Volume Resistivity @ 23°C:	≥ 4 x 10 ¹²	Ohm-cm	
Dielectric Constant (1KHz):	3.10		
Dissipation Factor (1KHz):	0.008		

OPTICAL PROPERTIES @ 23°C:			
Spectral Transmission:	≥ 95% @ 480-1,640	nm	
Refractive Index (uncured):	1.5275 @ 589	nm	

Epoxyes and Adhesives for Demanding Applications™

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.

EPOXY TECHNOLOGY, INC.

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www.epotek.com

EPO-TEK® 730-110 Advantages & Suggested Application Notes:

- Excellent "all-purpose adhesive". Many uses as a general purpose bonding solution. Commonly used in outdoor applications, automotive, industrial, and metal working applications.
- Designed as a medium viscosity flowing liquid but is also available as a thick paste (EPO-TEK® 730)
- Often applied by hand using a spatula or blade, by dispensing equipment, or directly from a bi-pack
- 1:1 mix ratio allows for easy mixing by volume or weight
- Adheres well to most surfaces including metal, foils, glass, ceramic, and many engineering plastics
- Versatile cure options ranging from 23°C (room temperature) to 80°C

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