Product Information Sheet

MATERIAL ID: **EPO-TEK® 730-110 Black**

Date: May 2013

Rev: III

Material Description: A two component, room temperature curing, general and structural grade epoxy. It can be used for adhesive, sealing, and encapsulating applications in medical, x-ray device, filtration, opto-electronics and PCB industries. It is a black version of EPO-TEK® 730-110.

Number of Components: Two

Mix Ratio by Weight: 1 : 1

Recommended Cure: 80°C/2 Hours

Specific Gravity: Part A: 1.17 Part B: 0.97

Pot Life: 1 Hour

Shelf Life: One year at room temperature

Minimum Alternative Cure(s):
may not achieve performance properties below:
100°C / 30 Minutes
23°C / 24 Hours

NOTE: Container(s) should be kept closed when not in use. Filled systems should be stirred thoroughly before mixing and prior to use.

MATERIAL CHARACTERISTICS: 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

PHYSCIAL PROPERTIES:		
* **Color (before cure):**	Part A: Black Part B: Clear Yellow	
* **Consistency**	Pourable liquid	
* **Viscosity (23°C): @ 20 rpm**	10,000 - 14,000	**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** 3,400 **psi**
Degradation Temp:	343	**°C**
Weight Loss: **@ 200°C**	1.01	**%**
Operating Temp:		
Continuous:	- 55°C	**to** 150°C
Intermittent:	- 55°C	**to** 250°C
Storage Modulus:	129,916	**psi**
Particle Size:	N/A	

ELECTRICAL AND THERMAL PROPERTIES:		
Thermal Conductivity:	N/A	
Volume Resistivity @ 23°C:	≥ 4 x 10^{13}	**Ohm-cm**
Dielectric Constant (1KHz):	3.24	
Dissipation Factor (1KHz):	0.009	

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	< 2% @ 300 - 960	**nm**
	< 5% @ 980 - 1260	**nm**
Index of Refraction:	N/A	

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