Product Information Sheet

EPO-TEK® TJ2183-LH

Date: March 2020
Rev: VI
No. of Components: Two
Mix Ratio by Weight: 100 : 5.7
Specific Gravity: Part A: 1.55 Part B: 1.18
Pot Life: 9 Days
Shelf Life: One year at -40°C

Recommended Cure: 150°C / 1 Hour

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.

Product Description: A two component, low-halogen, electrically insulating die attach adhesive with extended pot life.

Typical Properties: Cure condition: 150°C / 1 Hour 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: Cream	Part B: Amber
* Consistency:	Smooth thixotropic paste	
* Viscosity (23°C) @ 10 rpm:	25,000-40,000	cPs
Thixotropic Index:	2.6	
* Glass Transition Temp:	≥ 90	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):		
Below Tg:	47	x 10^{-6} in/in°C
Above Tg:	149	x 10^{-6} in/in°C
Shore D Hardness:	85	
Lap Shear @ 23°C:	> 2,000	psi
Die Shear @ 23°C:	≥ 25	Kg 8,890 psi
Degradation Temp:	412	°C
Weight Loss:		
@ 200°C:	0.05	%
@ 250°C:	0.24	%
@ 300°C:	0.66	%
Suggested Operating Temperature:	< 350	°C (Intermittent)
Storage Modulus:	901,074	psi
* Particle Size:	≤ 20	microns

ELECTRICAL AND THERMAL PROPERTIES:		
Thermal Conductivity:	0.4	W/mK
Volume Resistivity @ 23°C:	≥ 1 x 10^{13}	Ohm-cm
Dielectric Constant (1KHz):	3.17	
Dissipation Factor (1KHz):	0.010	

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