

Product Information Sheet

EPO-TEK® P1011-ST

Date: June 2020 Recommended Cure: Pre-Bake: 80°C/30 Minutes (maximum)+ Rev:

Cure: 150°C/1 Hour (with or without vacuum)+

Post Cure: 285°C/90 Minutes

No. of Components: Single Mix Ratio by Weight: N/A Specific Gravity: 2.71

Pot Life: N/A Dry Time: 28 Days Shelf Life- Bulk: Six months at room temperature

IV

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 single component, modified polyimide, high-temperature grade, silver-filled, electrically and thermally conductive adhesive designed for semiconductor die-attach and hybrid microelectronic packaging. It is a lower viscosity version of EPO-TEK® P1011-T.

Typical Properties: Cure condition: Pre-Bake: 80°C/30 Minutes (maximum) - Cure: 150°C/1 Hour (with or without vacuum) - Post-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):		Silver	
* Consistency:		Smooth paste	
* Viscosity (23°C) @ 10 rpm:		16,000-25,000	cPs
Thixotropic Index:		2.1	
Glass Transition Temp:		Not detected	
Coefficient of Thermal Expans	sion (CTE):		
	Below Tg:	Upon request	
	Above Tg:	Upon request	
Shore D Hardness:		Upon request	
Lap Shear @ 23°C:		N/A	
Die Shear @ 23°C:		≥ 5	Kg 1,778 psi
Degradation Temp:		362	°C
Weight Loss:			
	@ 200°C:	< 0.05	%
	@ 250°C:	0.10	%
	@ 300°C:	0.41	%
Suggested Operating Temperature:		< 300	°C (Intermittent)
Storage Modulus:		Upon request	
* Particle Size:		≤ 20	microns

ELECTRICAL AND THERMAL PROPERTIES:				
Thermal Conductivity:	7.2	W/mK		
* Volume Resistivity @ 23°C:	≤ 0.0005	Ohm-cm		