



Preliminary Product Information Sheet

EPO-TEK® EV2118-1 (formerly 78-118-1)

Note: These are typical properties to be used as a guide only, not a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results.

Date:	September 2017	Recommended Cure: 150°C / 1 Hour
Rev:	II	
No. of Components:	Two	Minimum Alternative Cure(s):
Mix Ratio by Weight:	1 : 1	<i>May not achieve performance properties listed below</i>
Specific Gravity:	Part A: 2.53 Part B: 3.80	150°C / 10 Minutes
Pot Life:	3 Days	120°C / 20 Minutes
Shelf Life- Bulk:	One year at room temperature	100°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: Two component, flexible, silver epoxy.

MATERIAL CHARACTERISTICS*:

PHYSICAL PROPERTIES:	Cure condition: 150°C / 1 Hour	
Color (before cure):	Part A: Silver	Part B: Silver
Consistency:	Smooth thixotropic paste	
Viscosity (23°C) @ 100 rpm:	2009	cPs
Thixotropic Index:	4.3	
Glass Transition Temp:	36	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Shore A Hardness:	51	
Die Shear @ 23°C:	≥ 5	Kg
Degradation Temp:	323	°C
Weight Loss:		
	@ 200°C:	0.93 %
	@ 250°C:	1.13 %
	@ 300°C:	2.02 %
Suggested Operating Temperature:	< 250	°C (Intermittent)
Storage Modulus:	184,310	psi
Particle Size:	≤ 45	microns

ELECTRICAL AND THERMAL PROPERTIES:		
Thermal Conductivity:	4.1	W/mK
Volume Resistivity @ 23°C:	≤ 0.0001	Ohm-cm
Dielectric Constant (1KHz):		
Dissipation Factor (1KHz):		

The data above is INITIAL only - it may be changed at any time, for any reason without notice to anyone. It is provided only as a guide for evaluation/consideration.

* These material characteristics are typical properties that are based on a limited number of samples/batches. All properties are based on the cure indicated above. Some properties may vary as manufactured quantities are scaled up to commercialized production levels.