

Preliminary Product Information Sheet

EPO-TEK® EJ2108 (formerly 108-161)

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:	April 2017	Rev:	IX
Material Description:	A two component flexible, silver-filled, electrically and thermally conductive low temperature curing adhesive.		
Number of Components:	Two		
Mix Ratio by Weight:	2 : 1		
Recommended Cure:	150°C / 1 Hour		
Specific Gravity:	Part A: 3.35	Part B: 3.76	
Pot Life:	1 Hour		
Shelf Life- Bulk:	Six months at room temperature		

Minimum Alternative Cure(s): <i>may not achieve performance properties below:</i> 80°C / 2 Hours 23°C / 3 Days
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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) may vary from those stated below when syringe packaging and/or post-processing is required.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.

MATERIAL CHARACTERISTICS: Cure Condition: varies as required

PHYSICAL PROPERTIES:	
Color (before cure):	Part A: Silver Part B: Silver
Consistency:	Viscous paste
Viscosity (23°C) @ 10 rpm:	11,806 cPs
Thixotropic Index:	2.4
Glass Transition Temp:	42 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)
Coefficient of Thermal Expansion (CTE):	
Below Tg:	56 x 10 ⁻⁶ in/in°C
Above Tg:	223 x 10 ⁻⁶ in/in°C
Shore D Hardness:	55
Lap Shear @ 23°C:	796 psi
Die Shear @ 23°C:	8 Kg
Degradation Temp:	276 °C
Weight Loss:	
@ 200°C	0.26 %
@ 250°C	0.62 %
Suggested Operating Temperature:	< 175 °C (Intermittent)
Storage Modulus:	2,553 psi
Particle Size:	≤ 20 microns

ELECTRICAL AND THERMAL PROPERTIES:	
Thermal Conductivity:	4.0 W/mK
Volume Resistivity @ 23°C (80°C/2 Hours):	0.00009 Ohm-cm
Volume Resistivity @ 23°C (150°C/1 Hour):	0.00003 Ohm-cm
Volume Resistivity @ 23°C (25°C/60%RH/3 Day cure):	0.0004 Ohm-cm

The data above is INITIAL only - it may be changed at anytime, 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.