

## Epoxy Technology EPO-TEK® EV2118-2 Silver-filled, electrically conductive epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Electrically Conductive

### Material Notes:

Preliminary Product Information Sheet Material Description: A silver-filled, electrically conductive epoxy designed for semiconductor and electronic assembly. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-EV2118-2-Silver-filled-electrically-conductive-epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-EV2118-2-Silver-filled-electrically-conductive-epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.53 g/cc	2.53 g/cc	Part A
	3.33 g/cc	3.33 g/cc	Part B
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	2849 cP	2849 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	
Tensile Modulus	4.73 GPa	686 ksi	Storage

Thermal Properties	Metric	English	Comments
Thermal Conductivity	4.03 W/m-K	28.0 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	-150 °C	-238 °F	Continuous
	250 °C	482 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 40.0 °C	>= 104 °F	
Decomposition Temperature	325 °C	617 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.00050 ohm-cm	<= 0.00050 ohm-cm	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	@Temperature 150 °C	@Temperature 302 °F	
	20.0 min	0.333 hour	
	@Temperature 120 °C	@Temperature 248 °F	
Pot Life	4320 min	4320 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Shiny Silver	Part A
	Shiny Silver	Part B
Consistency	Smooth paste	
Die Shear	9.3 kg	
Mix Ratio By Weight	1:1	
Number of Components	Two	
Thixotropic Index	4.4	
Weight Loss	0.61%	200°C
	0.84%	250°C
	1.58%	300°C

## Contact Songhan Plastic Technology Co.,Ltd.

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