

## **Product Information Sheet**

## **MATERIAL ID:**

## EPO-TEK<sup>®</sup> EJ2189-LV

Date:	May 2014			
<b>Rev:</b>	VI			
Material Description:		Two component, low viscosity, room temperature curing, conductive epoxy.		
Number of Components:		Two	Minimum Alternative Cure(s):	
Mix Ratio by Weight:		10:1	may not achieve performance properties below:	
<b>Recommended Cure:</b>		150°C/1 Hour	150°C / 15 Minutes	
Specific Gravity:		Part A: 3.07 Part B: 0.94	100°C / 1 Hour	
Pot Life:		4 Hours	80°C / 3 Hours	
Shelf Life:	:	One year at room temperature	23°C / 72 Hours	

NOTE: Container(s) should be kept closed when not in use. Filled systems should be stirred thoroughly before mixing and prior to use.

**MATERIAL CHARACTERISTICS:** To be used as a guide only, not as a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results; Cure condition: varies as required

\* denotes test on lot acceptance basis

PHYSCIAL PROPERTIES:				
* Color (before cure):	Part A: Silver Part B: Amber			
* Consistency	Smooth flowing paste			
* Viscosity (23°C): @ 1 rpm	25,000 - 45,000 <b>cPs</b>			
Thixotropic Index:	3.3			
* Glass Transition Temp:	$\geq$ 40 °C (Dynamic Cure: 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)			
Coefficient of Thermal Expansion (CTE):				
Below Tg:				
Above Tg:				
Shore D Hardness:	41			
Lap Shear @ 23°C:	1,336 <b>psi</b>			
Die Shear @ 23°C:	$\geq 10 \text{ Kg}$ 3,400 psi			
Degradation Temp:	340 ° <b>C</b>			
Weight Loss: @ 200°C				
@ 250°C				
@ 300°C	1.58 %			
Operating Temp:	550G + 1500G			
Continuous:				
Intermittent:				
Storage Modulus:	213,672 psi			
Ion Content: Cl:				
$\mathrm{NH}_4^+$ :				
* Particle Size: $\leq 45$ microns				
ELECTRICAL AND THERMAL PROPERTIES:				
Thermal Conductivity:	2 W/mK			
* Volume Resistivity @ 23°C (23				
* Volume Resistivity @ 23°C (80				
* Volume Resistivity @ 23°C (150°C/1 Hour): $\leq 0.0005$ Ohm-cm				
Volume Resistivity @ 23°C (25°C/40-60%RH/3 Day cure): $\geq 0.007$ Ohm-cm				

This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.

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