

# EPO-TEK® E3001-6

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

EPO-TEK® E3001-6 is a single component, electrically and thermally conductive, snap cure, die attach epoxy. It was designed for JEDEC level IC plastic packaging of semiconductors, hybrid micro-electronics and photonic device assembly. It is a single component version of EPO-TEK® E2001-6, shipped in dry ice.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Thermally Conductive	
Uses	Electrical/Electronic Applications	
	LCD Applications	
	LEDs	
	Printed Circuit Boards	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Ion Type		
Cl-	103	ppm
K+	1	ppm
Na+	14	ppm
NH4+	26	ppm
Particle Size	< 20.0	µm
Degradation Temperature	425	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus	4.88	GPa
Thixotropic Index	2.40	
Weight Loss on Heating		
200°C	0.17	%
250°C	0.20	%

300°C	0.28	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature <sup>1</sup>	> 100	°C	
CLTE - Flow			
-- <sup>2</sup>	5.0E-5	cm/cm/°C	
-- <sup>3</sup>	1.1E-4	cm/cm/°C	
Thermal Conductivity	1.5	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (-40°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	Silver		
Density	2.70	g/cm <sup>3</sup>	
Viscosity <sup>4</sup> (23°C)	5.5 to 7.5	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	480	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	83		
Lap Shear Strength (23°C)	7.99	MPa	
Volume Resistivity			
23°C	< 5.0E-4	ohms·cm	
23°C <sup>5</sup>	2.0E-3	ohms·cm	
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	50 rpm		
5.	150°C/5 min cure		

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#### Recommended distributors for this material

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