

EPO-TEK® E3001-HV

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® E3001-HV is a snap cure, single component, silver-filled die attach adhesive for semiconductor plastic IC packaging. Also available in a frozen syringe.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Fast Cure	
	Good Adhesion	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic 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-	125	ppm
K+	4	ppm
Na+	6	ppm
NH4+	27	ppm
Particle Size	< 20.0	µm
Degradation Temperature	435	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	2.15	GPa
Thixotropic Index	3.90	
Weight Loss on Heating (300°C)	0.23	%

Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 100	°C	
CLTE - Flow			
-- ²	2.4E-5	cm/cm/°C	
-- ³	7.7E-5	cm/cm/°C	
Thermal Conductivity	1.1	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (-40°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	Silver		
Density	2.83	g/cm ³	
Viscosity ⁴ (23°C)	11 to 14	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	1400	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		
Lap Shear Strength (23°C)	10.3	MPa	
Volume Resistivity (23°C)	< 5.0E-4	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.	20 rpm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT