

EPO-TEK® H31LV

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® H31LV is a single component, silver-filled, electrically conductive epoxy designed for semiconductor die attach applications found in hybrids, JEDEC, and opto-electronic packaging. Low viscosity version of EPO-TEK® H31.

General Information			
Filler / Reinforcement	Silver		
Features	Electrically Conductive		
	Electromagnetic Shielding (EMI)		
	Low Viscosity		
	Radio Frequency Shielding (RFI)		
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-	14	ppm	
K+	47	ppm	
Na+	380	ppm	
NH4+	8	ppm	
Particle Size	< 45.0	µm	
Degradation Temperature	387	°C	TGA
Die Shear Strength - >5 kg (23°C)	11.7	MPa	
Operating Temperature			
Continuous	-55 to 200	°C	
Intermittent	-55 to 300	°C	
Storage Modulus (23°C)	1.77	GPa	
Thixotropic Index	1.80		
Weight Loss on Heating			

200°C	0.13	%	
250°C	0.27	%	
300°C	1.1	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 110	°C	
CLTE - Flow			
-- ²	2.6E-5	cm/cm/°C	
-- ³	1.5E-4	cm/cm/°C	
Thermal Conductivity	0.55	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life ⁴	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	Silver		
Density	1.57	g/cm ³	
Viscosity ⁵ (23°C)	2.0 to 3.5	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	4300	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	85		
Lap Shear Strength (23°C)	9.65	MPa	
Volume Resistivity (23°C)	< 8.0E-3	ohms·cm	
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-250°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	Refrigerated		
5.	100 rpm		

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