

EPO-TEK® H31D-LV

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, silver-filled, electrically conductive epoxy designed for semiconductor die attach applications found in hybrids, JEDEC, and opto-electronic packaging. It is a NASA approved low outgassing epoxy. It is a lower viscosity version of EPO-TEK® H31D.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Low to No Outgassing	
Uses	Adhesives	
	Electrical/Electronic Applications	
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-	17	ppm
K+	33	ppm
Na+	145	ppm
Particle Size	< 20.0	µm
Degradation Temperature	456	°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 (23°C)	2.14	GPa
Thixotropic Index	1.60	
Weight Loss on Heating		
200°C	< 0.50	%
300°C	0.080	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 110	°C
CLTE - Flow		

-- ²	3.5E-5	cm/cm/°C
-- ³	1.4E-4	cm/cm/°C
Thermal Conductivity	0.89	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life ⁴	26	wk
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	2.12	g/cm ³
Viscosity ⁵ (23°C)	10 to 15	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
Lap Shear Strength (23°C)	9.31	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.	20 rpm	

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