

EPO-TEK® H21D

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® H21D is a two component, high Tg, silver-filled epoxy designed for chip bonding in microelectronic and optoelectronic applications.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Low to No Outgassing	
Uses	Adhesives	
	Aerospace Applications	
	Bonding	
	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-	64	ppm
Na+	72	ppm
NH4+	121	ppm
Particle Size	< 45.0	µm
Degradation Temperature	416	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus	5.53	GPa
Thixotropic Index	2.60	
Weight Loss on Heating		
200°C	0.030	%
250°C	0.060	%
300°C	0.17	%
Thermal	Nominal Value	Unit

Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		
-- ²	4.2E-5	cm/cm/°C
-- ³	2.3E-4	cm/cm/°C
Thermal Conductivity	1.0	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Silver	
-- ⁵	Silver	
Density		
Part B	2.13	g/cm ³
Part A	2.44	g/cm ³
Viscosity ⁶ (23°C)	14 to 20	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	900	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	60	
Lap Shear Strength (23°C)	10.4	MPa
Volume Resistivity (23°C)	< 9.0E-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.	Part B	
5.	Part A	
6.	20 rpm	

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