

EPO-TEK® H22

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® H22 is a two component, silver-filled epoxy system designed specifically for die bonding and sealing hybrid circuit packages.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Fast Cure	
	Good Chemical Resistance	
	Low to No Outgassing	
	Moisture Resistant	
	Solvent Resistant	
	Thixotropic	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	High Temperature Applications	
	Seals	
Agency Ratings	ASTM E 595	
	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-	175	ppm
K+	6	ppm
Na+	60	ppm
NH4+	148	ppm
Particle Size	< 45.0	µm
Degradation Temperature	454	°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)	3.72	GPa	
Thixotropic Index	2.36		
Weight Loss on Heating			
200°C	0.090	%	
250°C	0.23	%	
300°C	0.42	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 100	°C	
CLTE - Flow			
-- ²	3.9E-5	cm/cm/°C	
-- ³	2.2E-4	cm/cm/°C	
Thermal Conductivity	0.94	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 4.5		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Amber		
-- ⁵	Silver		
Density			
Part B	1.03	g/cm ³	
Part A	2.02	g/cm ³	
Viscosity ⁶ (23°C)	12 to 20	Pa · s	
Curing Time (150°C)	1.0	hr	
Pot Life	960	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		
Lap Shear Strength (23°C)	13.7	MPa	
Volume Resistivity (23°C)	< 5.0E-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.	Part B		
5.	Part A		
6.	20 rpm		

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