

EPO-TEK® H20E-PFC

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® H20E-PFC is a two component, semiconductor grade epoxy, designed for flip chip interconnects using a solder-free joining method.

General Information		
Features	Electrically Conductive	
	Low to No Outgassing	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
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-	199	ppm
K+	12	ppm
Na+	12	ppm
NH4+	349	ppm
Particle Size	< 20.0	µm
Degradation Temperature	407	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 325	°C
Storage Modulus	6.35	GPa
Thixotropic Index	6.69	
Weight Loss on Heating		
200°C	0.46	%
250°C	1.0	%
300°C	1.8	%
Thermal	Nominal Value	Unit

Glass Transition Temperature ¹	> 80.0	°C
CLTE - Flow		
-- ²	4.8E-5	cm/cm/°C
-- ³	1.1E-4	cm/cm/°C
Thermal Conductivity	3.2	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
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 A	2.87	g/cm ³
Part B	3.30	g/cm ³
Viscosity ⁶ (23°C)	3.0 to 4.0	Pa · s
Curing Time (150°C)	1.0	hr
Pot Life	4300	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	50	
Lap Shear Strength (23°C)	5.86	MPa
Volume Resistivity (23°C)	< 4.0E-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.	100 rpm	

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