

EPO-TEK® H20E-FC

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® H20E-FC is a two-component, electrically conductive, snap curing epoxy for photovoltaic thin film module stringing, semiconductor packaging and PCB circuit assembly.

General Information		
Features	Electrically Conductive	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Printed Circuit Boards	
	Solar Panels	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Particle Size	< 45.0	µm
Degradation Temperature	392	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	6.39	GPa
Thixotropic Index	4.62	
Weight Loss on Heating		
200°C	0.73	%
250°C	1.7	%
300°C	2.4	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	85.0	°C
CLTE - Flow		
-- ²	5.3E-5	cm/cm/°C
-- ³	2.3E-4	cm/cm/°C
Thermal Conductivity	2.6	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 B	2.50	g/cm ³
Part A	3.79	g/cm ³
Viscosity ⁶ (23°C)	2.4	Pa · s
Curing Time (140°C)	0.17	hr
Pot Life	1200	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	55	
Lap Shear Strength (23°C)	> 13.8	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.	50 rpm	

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