

EPO-TEK® H20E-175

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® H20E-175 is a two component epoxy designed for semiconductor die-attach. It is a higher Tg version of EPO-TEK® H20E. It was designed to be used in semiconductor / JEDEC packaging, microelectronic packaging of hybrids, as well as high temperature devices and assembly.

General Information		
Features	Electrically Conductive	
	Thixotropic	
Uses	Adhesives	
	Aerospace Applications	
	Electrical/Electronic Applications	
	Industrial Applications	
	Military 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
Particle Size	< 45.0	µm
Degradation Temperature	450	°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 (23°C)	4.33	GPa
Thixotropic Index	3.10	
Weight Loss on Heating		
200°C	0.050	%
250°C	0.11	%
300°C	0.25	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 85.0	°C
CLTE - Flow		
-- ²	2.0E-5	cm/cm/°C

-- ³	8.8E-5	cm/cm/°C	
Thermal Conductivity	2.0	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
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	Test Method
Color			
-- ⁴	Silver		
-- ⁵	Silver		
Density			
Part A	2.43	g/cm ³	
Part B	3.06	g/cm ³	
Viscosity ⁶ (23°C)	2.8 to 3.8	Pa·s	
Curing Time (180°C)	1.0	hr	
Pot Life	5000	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70		
Lap Shear Strength (23°C)	8.91	MPa	
Volume Resistivity (23°C)	< 4.0E-4	ohms·cm	
NOTE			
1.	Dynamic Cure 20-250°C/ISO 25 Min; Ramp -10-250°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	Part B		
5.	Part A		
6.	100 rpm		

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