EPO-TEK® N20E

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® N20E is a two component, electrically and thermally conductive, epoxy adhesive designed for semiconductor and electronics assembly. Its applications and field conditions include the optical, sensor, consumer, and industrial industries.

General Information					
Features	Electrically Conductive				
	Electromagnetic Shielding (EMI)				
	Radio Frequency Shielding (RFI)				
	Thermally Conductive				
	Thixotropic				
Uses	Adhesives				
	Consumer Applications				
	Electrical/Electronic Applications				
	Industrial Applications				
	Optical Applications				
	Printed Circuit Boards				
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					
CI-	34	ppm			
K+	10	ppm			
Na+	265	ppm			
NH4+	16	ppm			
Degradation Temperature	478	°C	TGA		
Die Shear Strength - >10 kg (23°C)	23.4	MPa			
Operating Temperature					
Continuous	-55 to 200	°C			
Intermittent	-55 to 300	°C			
Storage Modulus (23°C)	7.87	GPa			
Thixotropic Index	1.90				

Weight Loss on Heating			
200°C	0.070	%	
250°C	0.22	%	
300°C	0.81	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 70.0	°C	
CLTE - Flow			
2	2.7E-5	cm/cm/°C	
3	8.9E-5	cm/cm/°C	
Thermal Conductivity	1.2	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	Grey		
⁵	Grey		
Density			
Part B	2.85	g/cm³	
Part A	2.92	g/cm³	
Viscosity ⁶ (23°C)	5.0 to 10	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	2200	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	50		
Volume Resistivity (23°C)	< 0.070	ohms·cm	
NOTE			
	Dynamic Cure 20-200°C/ISO 25		
1.	Min; Ramp -10-200°C @ 20°C/Mi	n	
2.	Below Tg		
3.	Above Tg		
4.	Part B		
5.	Part A		
6.	20 rpm		

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