Ablefilm ECF550X

Epoxy; Epoxide Henkel Ablestik

Message:

ABLEFILM® ECF550X silver filled, epoxy adhesive film is designed for microelectronic applications which require electrical conductivity. This material exhibits conductivity in the x, y, and z axes.

When used for substrate attach, ECF550X acts as an electrical ground plane. It provides RF/EMI shielding.

General Information			
Filler / Reinforcement	Silver		
Features	Electrically Conductive		
	Good Electrical Properties		
Uses	Adhesives		
	Electrical/Electronic Applications		
	Film		
Appearance	Grey		
Forms	Pellets		
	Nominal Value Test Method		
Physical			I est Method Internal Method
pH	4.5		Internal Method
Electrical Resistivity ¹	0.00200	ohms/in²	
Carrier	Glass Fabric		
Ionic Chloride (100°C) ²	35	ppm	Internal Method
Ionic Potassium (100°C) ³	5	ppm	
Ionic Sodium (100°C) ⁴	15	ppm	Internal Method
Lap Shear			Internal Method
Al to Al : 25°C	15.2	MPa	
Au to Au : 25°C	14.5	MPa	
Water Extract Conductivity ⁵	25.0	μS/cm	Internal Method
Weight Loss on Heating (300°C) ⁶	0.20	%	Internal Method
Work Life (25°C) ⁷	3.0	day	Internal Method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	109	°C	Internal Method
CLTE - Flow			Internal Method
< 109°C	4.0E-5	cm/cm/°C	
> 109°C	5.0E-5	cm/cm/°C	
Thermal Conductivity ⁸ (121°C)	2.1	W/m/K	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ⁹	8.0E-3	ohms·cm	Internal Method
Thermoset	Nominal Value	Unit	Test Method

Pot Life (23°C)	4300	min	
Shelf Life (-40°C)	52	wk	
Demold Time			
125°C	120	min	
150°C	60	min	
Post Cure Time			
52°C	2.0	hr	
66°C	1.0	hr	
NOTE			
1.	Measured through Gold Joints		
	Teflon fl ask, 5 gm sample/20-40		
2.	mesh, 50 gm DI water, 24 hours		
	Teflon fl ask, 5 gm sample/20-40		
3.	mesh, 50 gm DI water, 24 hours		
	Teflon fl ask, 5 gm sample/20-40		
4.	mesh, 50 gm Dl water, 24 hours		
5.	Conductometer		
6.	Thermogravimetric Analysis		
7.	25% increase in viscosity @ RT		
8.	C-MATIC conductance tester		
9.	4-point probe		

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