

Ablefilm 550

Epoxy; Epoxide
Henkel Ablestik

Message:

ABLEFILM® 550™ adhesive film is designed for substrate attach and sealing microelectronic packages. This adhesive film gives off methanol, water, and ammonia during cure. Note:
Using ABLEFILM® 550™ adhesive in hermetically sealed packages is not recommended.

General Information		
Features	Electrically Insulating	
	Good Electrical Properties	
	Thermally Conductive	
Uses	Adhesives	
	Film	
Appearance	Translucent	
Forms	Pellets	
Physical	Nominal Value	Unit
Water Absorption (Equilibrium, 85°C, 85%RH)	2.2	%
pH	9.0	
Ionic Chloride (100°C)	45	ppm
Ionic Potassium (100°C)	1	ppm
Ionic Sodium (100°C)	10	ppm
Lap Shear ¹		
Al to Al : 25°C	39.3	MPa
Au to Au : 25°C	36.5	MPa
Volatiles (120°C) ²	0.43	%
Water Extract Conductivity	220	µS/cm
Weight Loss on Heating (300°C)	1.1	%
Work Life (25°C)	6.0	month
Mechanical	Nominal Value	Unit
Tensile Modulus		
-65°C	4210	MPa
25°C	3790	MPa
150°C	2200	MPa
250°C	1520	MPa
Films	Nominal Value	Unit
Film Thickness - Recommended / Available	3 to 10 mil	
Thermal	Nominal Value	Unit

Glass Transition Temperature	105	°C
CLTE - Flow		
< 105°C	9.5E-5	cm/cm/°C
> 105°C	4.8E-4	cm/cm/°C
Thermal Conductivity (121°C)	0.20	W/m/K
Electrical	Nominal Value	Unit
Volume Resistivity	1.0E+14	ohms·cm
Dielectric Strength (0.0250 mm)	1400	kV/mm
Dielectric Constant (1 kHz)	4.80	
Dissipation Factor (1 kHz)	0.015	
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Post Cure Time		
125°C	2.0	hr
150°C	0.50	hr
NOTE		
1.	1.27 cm overlap	
2.	10x10 cm sample, 20 mins	

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Recommended distributors for this material

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