

Ablefilm 561K

Epoxy; Epoxide
Henkel Ablestik

Message:

ABLEFILM® 561K is designed for substrate attach and heat sink bonding. This adhesive film is designed for bonding materials with severely mismatched coefficients of thermal expansion. All data and results will vary with different thicknesses.

General Information		
Features	Good Flexibility	
	Thermally Conductive	
Uses	Adhesives	
	Bonding	
	Film	
Appearance	White	
Forms	Pellets	
Physical	Nominal Value	Unit
Water Absorption (Equilibrium, 85°C, 85%RH)	0.90	%
pH	8.0	
Carrier	Glass fabric	
Ionic Chloride (100°C)	110	ppm
Ionic Potassium (100°C)	9	ppm
Ionic Sodium	35	ppm
Lap Shear ¹		
Al to Al : 25°C	22.8	MPa
Au to Au : 25°C	25.5	MPa
Volatiles (120°C) ²	0.16	%
Water Extract Conductivity	110	µS/cm
Weight Loss on Heating (300°C)	0.34	%
Work Life (25°C)	6.0	month
Mechanical	Nominal Value	Unit
Tensile Modulus		
-65°C	6140	MPa
25°C	4350	MPa
150°C	2000	MPa
250°C	1860	MPa
Thermal	Nominal Value	Unit
Glass Transition Temperature	55.0	°C
CLTE - Flow		

< 55°C	8.5E-5	cm/cm/°C
> 55°C	3.0E-4	cm/cm/°C
Thermal Conductivity (121°C)	0.90	W/m/K
Electrical	Nominal Value	Unit
Volume Resistivity	9.1E+12	ohms·cm
Dielectric Strength (0.0250 mm)	820	kV/mm
Dielectric Constant (1 kHz)	5.70	
Dissipation Factor (1 kHz)	0.012	
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, 30 mins	

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Recommended distributors for this material

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