

ABLEFILM® 570K

HIGH PURITY EPOXY ADHESIVE FILM

Mil Std 883; Method 5011 Certified

TYPICAL PROPERTIES	TEST METHOD	DESCRIPTION
Color: White		Ablefilm® 570K adhesive film is a thermally conductive, high purity epoxy adhesive film for substrate attach.
Carrier: Glass Fabric		
Work Life @ 25°C: 2 weeks		
Cure Condition: 3 hours @ 150°C		
Cure Option: 1-1/2 hours @ 170°C		
Lap Shear Strength	TLS-1	
Al to Al @ 25°C: 2800 psi		
Au to Au @ 25°C: 2000 psi		
Volume Resistivity: 6 x 10 ¹⁴ ohm-cm	VR-2	
Dielectric Constant: 3.6 (@ 1 KHz)	DC-1	
Dissipation Factor: 0.008 (@ 1 KHz)		This adhesive film meets the requirements of MIL-STD-883C, Method 5011.
Ionic Data	EIA-5	
Chloride: 15 ppm		
Sodium: 50 ppm		
Potassium: None detected		
Water Extract	EIA-2	
Conductivity: 15 µmhos/cm		
pH: 7.0		
Glass Transition Temperature (Tg): 135°C	TG-1	
Coefficient of Thermal Expansion (TMA)	TCE-1	
Below Tg: 50 x 10 ⁻⁶ in/in/°C		
Above Tg: 35 x 10 ⁻⁵ in/in/°C		
Weight Loss @ 300°C: 0.27%	TGA-1	
Thermal Conductivity @ 121°C: 0.7 W/m °K	TC-1	
Storage Life	SL-1	
@ 5°C: 3 months		
@ -10°C: 6 months		
@ -40°C: 1 year		

Typical properties are not intended to be used as specification limits.

INSTRUCTIONS

Clean all surfaces to be bonded. Place adhesive film in position. Apply spring loaded clamp to provide continuous pressure of 10 psi during cure cycle. Place in a preheated oven and cure at the recommended cure schedule.

AVAILABILITY

Ablefilm® 570K adhesive film is available in sheet stock or die cut preforms. This material is Method 5011 Certified.

STORAGE LIFE

This product may be stored up to three months at standard refrigeration temperature (5°C maximum), six months at -10°C, or up to one year at -40°C.

CAUTION This product may cause skin irritation in sensitive persons. Avoid skin contact. If contact does occur, wash area immediately with soap and water. Please refer to Material Safety Data Sheet (OSHA) for more details.

Medical Implantable Disclaimer

In the event this product is intended by you for use in implantation in the human body, you are hereby advised that National Starch (or Emerson & Cuming) has not performed clinical testing of these materials for implantation in the human body nor has National Starch (Emerson & Cuming) sought, nor received, approval from the FDA for the use of these material in implantation in the human body. It is YOUR responsibility, as a manufacturer of any such device, to ensure that all materials and processes relating to the manufacture of any medical device fully comply with all applicable federal, state and local laws, rules, regulations and requirements as well as any such laws, rules, regulations, directives or other orders of any foreign country where such product is sold. If you have not undertaken the necessary investigations to ensure compliance you are advised NOT TO USE this product in the manufacture of any device which is to be implanted in the human body. No representative of ours has any authority to change the foregoing provisions.”

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