

ABLEFILM® 5020

HIGH PURITY ADHESIVE FILM

TYPICAL PROPERTIES	TEST METHOD	DESCRIPTION
Carrier: Glass Fabric		Ablefilm® 5020 glass supported adhesive film is a higher purity version of Ablefilm 550 adhesive film. It is designed for substrate attach and sealing microelectronic packages.
Work Life @ 25°C: 6 months	PT-54	
Cure Condition: 1 hour @ 150°C		
Lap Shear Strength	MT-6	
Al to Al @ 25°C: 5400 psi		
Au to Au @ 25°C: 4000 psi		
Volume Resistivity: 5×10^{14} ohm-cm	PT-47	
Dielectric Constant: 4.10 (@ 1 KHz)	PT-48	
Dissipation Factor: 0.006 (@ 1 KHz)	PT-48	
Ionic Data	CT-13	
Chloride: 100 ppm		This adhesive film meets the requirements of MIL-STD-883, Method 5011.
Sodium: 20 ppm		
Potassium: 5 ppm		
Water Extract Conductivity: 15 μ mhos/cm	CT-6	
pH: 5.6		
Glass Transition Temperature (Tg): 100°C	MT-9	
Coefficient of Thermal Expansion (TMA)	MT-9	
Below Tg: 60 ppm/°C		
Above Tg: 200 ppm/°C		
Weight Loss @ 300°C: 0.7%	PT-20	
Thermal Conductivity @ 121°C: 0.20 W/m°K	PT-40	
Storage Life @ -40°C: 1 year	PT-36	

The figures shown above are typical values only. If you need to write a specification, please request our current Standard Release Specification.

INSTRUCTIONS

Clean all surfaces to be bonded. Place adhesive film in position. Apply spring loaded clamp to provide continuous pressure of at least 2-10 psi during cure cycle. Place in preheated oven and cure at the recommended cure schedule.

AVAILABILITY

Ablefilm® 5020 adhesive film is available in sheet stock or die cut preforms. This material may be purchased with MIL-STD-883, Method 5011 certification at an additional charge.

STORAGE

This adhesive film may be stored 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.

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