

Ablefilm 561

Epoxy; Epoxide
Henkel Ablestik

Message:

ABLEFILM® 561 glass supported, modified epoxy adhesive film is designed for bonding materials with severely mismatched coefficients of thermal expansion.

In many bonding applications, components bonded with ABLEFILM 561 adhesive film can be repaired.

After heating the component to 150°C, de-bonding can be accomplished by sliding a thin blade, such as a razor blade, between the bonded surfaces.

This adhesive film is also available in a low temperature cure version.

General Information			
Uses	Adhesives		
	Bonding		
	Film		
Appearance	Amber		
Forms	Pellets		
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	50.0	°C	Internal Method
CLTE - Flow			Internal Method
< 50°C	1.5E-4	cm/cm/°C	
> 50°C	4.0E-4	cm/cm/°C	
Thermal Conductivity ² (121°C)	0.30	W/m/K	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ³	5.0E+12	ohms · cm	Internal Method
Dielectric Strength ⁴	39	kV/mm	Internal Method
Dielectric Constant ⁵ (1 kHz)	7.00		Internal Method
Dissipation Factor ⁶ (1 kHz)	0.017		Internal Method
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	120000	min	
Shelf Life (-40°C)	52	wk	
Demold Time			
125°C	120	min	
150°C	30	min	
Post Cure Time			
125°C	2.0	hr	
150°C	0.50	hr	
Additional Information	Nominal Value	Unit	Test Method
Carrier	Glass fiber		
Lap Shear			Internal Method
Al to Al : 25°C	11.0	MPa	

Au to Au : 25°C	11.0	MPa	
Weight Loss on Heating (300°C) ⁷	0.71	%	Internal Method
Work Life (25°C) ⁸	3.0	month	Internal Method

NOTE

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| 1. | TMA penetration mode |
| 2. | C-MATIC conductance tester |
| 3. | 4-point probe |
| 4. | AC/DC breakdown, leakage and ionization tester |
| 5. | Precision digibridge |
| 6. | Precision digibridge |
| 7. | Thermogravimetric Analyzer |
| 8. | 25% increase in viscosity @ RT |

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