

# Ablebond 965-1L

Epoxy; Epoxide  
Henkel Ablestik

## Message:

ABLEBOND® 965-1L electrically conductive, stress-absorbing die attach adhesive is designed for bonding large die integrated circuits to substrates with mismatched coefficients of thermal expansion. ABLEBOND 965-1L adhesive exhibits very low levels of contaminants. The rheology of this adhesive is tailored for high speed, automated assembly operations. This product cures to yield a void-free bondline with minimal resin bleed.

General Information			
Features	Electrically Conductive		
Uses	Adhesives		
	Bonding		
	Electrical Parts		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
pH	5.5		Internal Method
Weight - Loss on Cure	4.2	%	Internal Method
Ionic Chloride	< 15	ppm	Internal Method
Ionic Potassium	< 5	ppm	Internal Method
Ionic Sodium	< 10	ppm	Internal Method
Thixotropic Index <sup>1</sup>	4.50		Internal Method
Water Extract Conductivity	7.00	µS/cm	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-65°C, 0.500 mm	5800	MPa	Internal Method
25°C, 0.500 mm	4800	MPa	Internal Method
150°C, 0.500 mm	290	MPa	Internal Method
250°C, 0.500 mm	300	MPa	ISO 527-2
Shear Strength <sup>2</sup>			
25°C	0.981	MPa	
250°C	0.0588	MPa	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	72.0	°C	Internal Method
CLTE - Flow			
< 72°C	5.0E-5	cm/cm/°C	
> 72°C	1.9E-4	cm/cm/°C	
Thermal Conductivity	3.0	W/m/K	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E-4	ohms · cm	IEC 60093
Thermoset	Nominal Value	Unit	Test Method

Pot Life (25°C)	1400	min	
Shelf Life (-40°C)	52	wk	
Thermoset Mix Viscosity <sup>3</sup> (25°C)	12000	cP	Internal Method
Demold Time (175°C)	60	min	

#### NOTE

1. Viscosity @ 0.5/Viscosity @ 5 rpm
2. 2 x 2mm (80 x 80 mil) Si die, 10 0.6 on Ag/Cu leadframe
3. Brookfield CP51 @ 5 rpm

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#### Recommended distributors for this material

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