

Ablebond 84-1LMISR4

Epoxy; Epoxide
Henkel Ablestik

Message:

ABLEBOND® 84-1LMISR4 electrically conductive die attach adhesive has been formulated for use in high throughput, automatic die attach equipment. The rheology of ABLEBOND 84-1LMISR4 adhesive allows minimum adhesive dispense and die put down dwell times, without tailing or stringing problems. The unique combination of adhesive properties makes this material one the most widely used die attach materials in the semiconductor industry.

General Information			
Filler / Reinforcement	Silver		
Features	Electrically Conductive		
Uses	Adhesives		
	Electrical Parts		
Appearance	Silver		
Forms	Pellets		
Physical	Nominal Value	Unit	
Water Absorption ¹ (Saturation, 85°C)	0.60	%	
pH	6.0		
Weight			
Loss : 300°C	0.35	%	
Loss on Cure ²	5.3	%	
Ionic Chloride	< 20	ppm	
Ionic Potassium	< 10	ppm	
Ionic Sodium	< 10	ppm	
Thixotropic Index ³	5.60		
Water Extract Conductivity	13.0	μS/cm	
Mechanical	Nominal Value	Unit	
Tensile Modulus			
-65°C, 0.500 mm	4400	MPa	
25°C, 0.500 mm	3900	MPa	
150°C, 0.500 mm	2000	MPa	
250°C, 0.500 mm	300	MPa	
Thermal	Nominal Value	Unit	
Glass Transition Temperature	120	°C	
CLTE - Flow			
< 120°C	4.0E-5	cm/cm/°C	
> 120°C	1.5E-4	cm/cm/°C	
Thermal Conductivity	2.5	W/m/K	
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E-4	ohms·cm	IEC 60093
Thermoset	Nominal Value	Unit	
Pot Life (25°C)	1100	min	
Shelf Life (-40°C)	52	wk	
Thermoset Mix Viscosity ⁴	8000	cP	
Demold Time (175°C)	60	min	
NOTE			
1.	85%RH		
2.	10 x 10 mm Si die on glass slide		
3.	Viscosity @ 0.5/Viscosity @ 5 rpm		
4.	Brookfield CP51 @ 5 rpm		

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Recommended distributors for this material

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