

Ablebond 84-1LMIT1

Epoxy; Epoxide
Henkel Ablestik

Message:

ABLEBOND® 84-1LMIT1 adhesive is designed for die attach applications. It is designed for screen printing using 325 mesh. ABLEBOND® 84-1LMIT1 meets the requirements of MIL-STD-883C, Method 5011.

General Information			
Filler / Reinforcement	Silver		
Features	Electrically Conductive		
	Low Viscosity		
	Thermally Conductive		
Uses	Adhesives		
Agency Ratings	MIL Std. 883C Method 5011		
Appearance	Silver		
Forms	Paste		
Physical	Nominal Value		
pH	4.5		
Brookfield Viscosity - CP51 ¹ (25°C)	22.0	Pa · s	
Ionic Chloride	< 200	ppm	
Ionic Potassium	< 50	ppm	
Ionic Sodium	< 50	ppm	
Lap Shear - Al to Al (25°C)	13.0	MPa	
Shear Strength - Die (Au) ² (25°C)	186	N	
Water Extract Conductivity	13.0	µS/cm	
Weight Loss on Heating (300°C)	0.16	%	
Work Life (25°C)	14.0	day	
Mechanical	Nominal Value	Unit	
Tensile Modulus			
-65°C	1200	MPa	
25°C	1100	MPa	
100°C	790	MPa	
150°C	78.0	MPa	
200°C	56.0	MPa	
250°C	67.0	MPa	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	103	°C	
CLTE - Flow			
< 103°C	5.0E-5	cm/cm/°C	

> 103°C	2.0E-4	cm/cm/°C	
Thermal Conductivity	3.6	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	
Volume Resistivity	5.0E-4	ohms·cm	
Thermoset	Nominal Value	Unit	
Shelf Life (-40°C)	52	wk	
Post Cure Time			
125°C	2.0	hr	
150°C	1.0	hr	
NOTE			
1.	Speed 5 rpm		
2.	2 X 2 mm Au die		

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