

Arlon® 47N

Epoxy; Epoxide

Arlon-MED

Message:

47N is a low-flow epoxy prepreg engineered for binding multilayer epoxy rigid-flex or attaching heat sinks to multilayer PCBs. An optional low lamination temperature protects components already mounted on the PCB.

General Information			
Features	Bondability		
	Good Electrical Properties		
	Good Processability		
	Low Flow		
Uses	Bonding		
	Electrical/Electronic Applications		
	Laminates		
RoHS Compliance	RoHS Compliant		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75	g/cm ³	ASTM D792A
Water Absorption (24 hr)	0.10	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17900	MPa	Internal Method
Poisson's Ratio ¹	0.17		ASTM D3039
Films	Nominal Value	Unit	Test Method
Peel Strength ²	1.6	kN/m	Internal Method
T260	18.0	min	Internal Method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	130	°C	Internal Method
CLTE - Flow			
-- ³	1.5E-5 to 1.7E-5	cm/cm/°C	Internal Method
< 130°C ⁴	8.5E-5	cm/cm/°C	Internal Method
Thermal Conductivity (100°C)	0.25	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			Internal Method
-- ⁵	1.5E+12	ohms	
-- ⁶	8.8E+12	ohms	
Volume Resistivity			Internal Method
-- ⁷	7.4E+13	ohms · cm	

-- 8	5.1E+13	ohms·cm	
Dielectric Strength	39	kV/mm	Internal Method
Dielectric Constant (1 MHz)	4.30		Internal Method
Dissipation Factor (1 MHz)	0.022		Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	x and y direction		
2.	After Thermal Stress		
3.	Y-axis		
4.	Z-axis		
5.	E24/125		
6.	C96/35/90		
7.	E24/125		
8.	C96/35/90		

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