Arlon® 37N

Thermoplastic Polyimide

Arlon-MED

Message:

37N is a polyimide low-flow prepreg suitable for bonding multilayer polyimide rigid-flex, attaching heat sinks to polyimide MLBs, or other applications where minimal and uniform resin flow is required.

General Information			
Features	Bondability		
	Good Electrical Properties		
	Good Thermal Stability		
	Low (to None) Lead Content		
	Low Flow		
Uses	Bonding		
RoHS Compliance	RoHS Compliant		
Forms	Sheet		
Physical	**Nominal Value**	**Unit**	**Test Method**
Water Absorption (24 hr)	< 1.0	%	Internal Method
Decomposition Temperature			Internal Method
5%	340	°C	
Intial	322	°C	
Peel Strength			Internal Method
-- [1]	1.2	kN/m	
-- [2]	0.9	kN/m	
-- [3]	1.6	kN/m	
to Kapton [4]	0.7	kN/m	
Expansion Rate (50 to 260°C) [5]	2.3	%	Internal Method
T260	> 1.0	hr	Internal Method
T288	5.0	min	Internal Method
T300	2.0	min	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Strength	414	MPa	Internal Method
Poisson's Ratio [6]	0.17		ASTM D3039
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	200	°C	Internal Method
CLTE - Flow [7]			Internal Method
< 200°C	7.6E-5	cm/cm/°C	
> 200°C	2.5E-4	cm/cm/°C	
Thermal Conductivity (100°C)	0.30	W/m/K	ASTM E1461

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			Internal Method
-- [8]	1.2E+15	ohms	
-- [9]	4.4E+12	ohms	
Volume Resistivity			Internal Method
-- [10]	4.7E+15	ohms·cm	
-- [11]	8.2E+15	ohms·cm	
Dielectric Strength	52	kV/mm	Internal Method
Dielectric Constant (1 MHz)	4.25		Internal Method
Dissipation Factor (1 MHz)	0.018		Internal Method
Arc Resistance	124	sec	Internal Method
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94
NOTE			
1.	After Thermal Stress		
2.	At Elevated Temperatures		
3.	After Process Solutions		
4.	As Recieved		
5.	Z-axis		
6.	x and y direction		
7.	Z-axis		
8.	E24/125		
9.	C96/35/90		
10.	E24/125		
11.	C96/35/90		

Recommended distributors for this material

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