

Arlon® 35N

Thermoplastic Polyimide

Arlon-MED

Message:

35N is a pure polyimide laminate and prepreg system for applications requiring high temperature performance. High Tg (250°C) results in low Z-direction expansion for resistance to PTH failure during PWB processing, and minimizes risk of latent PTH defects in-service. Reduced temperature and time to cure offers improved throughput compared to traditional polyimide cycles.

General Information			
Features	High Heat Resistance		
	Low (to None) Lead Content		
Uses	Aircraft Applications		
	Automotive Applications		
	Industrial Applications		
	Laminates		
RoHS Compliance	RoHS Compliant		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.60	g/cm ³	ASTM D792A
Water Absorption (24 hr)	0.26	%	Internal Method
Decomposition Temperature			Internal Method
5%	407	°C	
Intial	363	°C	
Peel Strength			Internal Method
-- ²	1.1	kN/m	
-- ³	1.1	kN/m	
-- ⁴	1.0	kN/m	
Expansion Rate (50 to 260°C) ⁵	1.2	%	Internal Method
T260	> 1.0	hr	Internal Method
T288	> 1.0	hr	Internal Method
T300	11.0	min	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	22100	MPa	Internal Method
Poisson's Ratio ⁶	0.15		ASTM D3039
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	> 250	°C	Internal Method
CLTE - Flow			
-- ⁷	1.6E-5	cm/cm/°C	Internal Method
< 250°C ⁸	5.1E-5	cm/cm/°C	Internal Method

> 250°C ⁹	1.6E-4	cm/cm/°C	Internal Method
Thermal Conductivity (100°C)	0.20	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			Internal Method
-- ¹⁰	3.7E+14	ohms	
-- ¹¹	5.0E+14	ohms	
Volume Resistivity			Internal Method
-- ¹²	1.2E+14	ohms·cm	
-- ¹³	1.6E+14	ohms·cm	
Dielectric Strength	56	kV/mm	Internal Method
Dielectric Constant (1 MHz)	4.20		Internal Method
Dissipation Factor (1 MHz)	0.010		Internal Method
Arc Resistance	165	sec	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-1		UL 94
NOTE			
1.	23°C		
2.	After Thermal Stress		
3.	At Elevated Temperatures		
4.	After Process Solutions		
5.	Z-Axis		
6.	x and y direction		
7.	Y-axis		
8.	Z-axis		
9.	Z-axis		
10.	E24/125		
11.	C96/35/90		
12.	E24/125		
13.	C96/35/90		

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