

# Arlon® 38N

Thermoplastic Polyimide

Arlon-MED

## Message:

38N is an improved 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		
	Fast Cure		
	Good Electrical Properties		
	Good Thermal Stability		
	Low (to None) Lead Content		
	Low Flow		
Uses	Bonding		
RoHS Compliance	RoHS Compliant		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Water Absorption (24 hr)	< 1.0	%	Internal Method
Decomposition Temperature			Internal Method
5%	330	°C	
Intial	311	°C	
Peel Strength			Internal Method
-- <sup>1</sup>	1.5	kN/m	
to Kapton <sup>2</sup>	1.0	kN/m	
to Kapton <sup>3</sup>	0.9	kN/m	
Expansion Rate (50 to 260°C) <sup>4</sup>	1.5	%	Internal Method
T260	50.0	min	Internal Method
T288	5.0	min	Internal Method
T300	3.0	min	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	221	MPa	Internal Method
Flexural Strength	414	MPa	Internal Method
Poisson's Ratio <sup>5</sup>	0.17		ASTM D3039
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	200	°C	Internal Method
CLTE - Flow			
-- <sup>6</sup>	1.7E-5	cm/cm/°C	Internal Method
< 200°C <sup>7</sup>	5.4E-5	cm/cm/°C	Internal Method

> 200°C <sup>8</sup>	1.6E-4	cm/cm/°C	Internal Method
Thermal Conductivity (100°C)	0.30	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			Internal Method
-- <sup>9</sup>	1.2E+15	ohms	
-- <sup>10</sup>	4.4E+12	ohms	
Volume Resistivity			Internal Method
-- <sup>11</sup>	4.7E+15	ohms·cm	
-- <sup>12</sup>	8.2E+13	ohms·cm	
Dielectric Strength	63	kV/mm	Internal Method
Dielectric Constant (1 MHz)	4.25		Internal Method
Dissipation Factor (1 MHz)	0.010		Internal Method
Arc Resistance	125	sec	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	After Thermal Stress		
2.	As Recieved		
3.	After Solder		
4.	Z-axis		
5.	x and y direction		
6.	X-axis		
7.	Z-axis		
8.	Z-axis		
9.	E24/125		
10.	C96/35/90		
11.	E24/125		
12.	C96/35/90		

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