

Arlon® 55LM

Epoxy; Epoxide

Arlon-MED

Message:

55LM is an epoxy laminate and prepreg system, reinforced with non-woven aramid fiber, with substantially lower moisture absorption compared with conventional epoxy/aramid products, even in high-humidity environments.

General Information			
Filler / Reinforcement	Aramid Fiber		
Features	Good Dimensional Stability		
	Good Electrical Properties		
	Low (to None) Lead Content		
	Low Moisture Absorption		
Uses	Aircraft Applications		
	Electrical/Electronic Applications		
	Laminates		
	Military Applications		
RoHS Compliance	RoHS Compliant		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792A
Water Absorption (24 hr)	0.20	%	Internal Method
Decomposition Temperature			Internal Method
5%	337	°C	
Initial	328	°C	
Peel Strength ¹	1.1	kN/m	Internal Method
Expansion Rate (50 to 260°C) ²	4.5	%	Internal Method
T260	> 1.0	hr	Internal Method
T288	> 1.0	min	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	276	MPa	Internal Method
Flexural Strength	14.5	MPa	Internal Method
Compressive Modulus	207	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	160	°C	Internal Method
CLTE - Flow			
-- ³	1.0E-5 to 1.2E-5	cm/cm/°C	Internal Method
< 160°C ⁴	9.8E-5	cm/cm/°C	Internal Method

> 160°C ⁵	2.5E-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 ⁶	1.0E+15	ohms	Internal Method
Volume Resistivity ⁷	1.0E+16	ohms·cm	Internal Method
Dielectric Strength	> 49	kV/mm	Internal Method
Dielectric Constant (1 MHz)	3.80		Internal Method
Dissipation Factor (1 MHz)	0.022		Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	After Thermal Stress		
2.	Z-axis		
3.	Y-axis		
4.	Z-axis		
5.	Z-axis		
6.	E24/125		
7.	E24/125		

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