



TECHNICAL DATA SHEET

DMD100222SBPSA1

Class F 155°C Insulation with PSA

A flexible composite composed of non-woven polyester fiber and electrical grade polyester film laminated with a high-temperature adhesive system and coated one side with a self-curing, solvent acrylic pressure-sensitive adhesive, which provides high shear over a wide temperature range. DMD100222 laminate is filled 100% with resin providing a smooth, varnish-like surface.

PRODUCT ATTRIBUTES

- Excellent Thermal Stability, Electrical properties
- High tear, tensile, and burst strength
- Excellent moisture and chemical resistance
- UL 1446 155°C recognized insulation system, file E60273
- Good adhesion to a wide variety of surfaces including polyvinyl chloride, polyester, cellulose acetate, glass, aluminum, and steel

REPRESENTATIVE PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
NOMINAL THICKNESS , inches	0.013	ASTM D374
YIELD		
Square yards per pound	2.25	
Pounds per Square Yards	0.4	
DIELECTRIC STRENGTH (Volts – 2" electrodes)	7,500	ASTM D149
DIELECTRIC CONSTANT (23°C, 50% RH, 60 Hz)	3.5	ASTM D150
TENSILE STRENGTH (psi)		
Machine Direction (MD)	80	ASTM D828
Cross Machine Direction (XMD)	70	
GRAVES TEAR STRENGTH (lbs)		
Machine Direction (MD)	8	ASTM D1004
Cross Machine Direction (XMD)	5	
DISSIPATION FACTOR (23°C, 50% RH, 60 Hz)	0.005	ASTM D150
VOLUME RESISTIVITY (Ohm-cm) (23°C, 50% RH, Ohm-cm)	10 ¹⁵	ASTM 257-66
SURFACE RESISTIVITY (Ohm) (23°C, 50% RH)	10 ¹³	ASTM-257-66

Product performance will vary in each application and is dependent upon composite construction. Arlon Innovations does not guarantee the replication of this data by third parties. None of the data or statements contained herein is intended to warrant the performance of this product. Data is representative and not intended as a manufacturing specification.



Arlon Innovations 210.798.1900
6110 Rittiman Road 800.549.9860
San Antonio, TX 78218 arloninnovations.com

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180° PEEL @72°F ON SS	43 oz/in	PSTC - 101
TACK, @ 72°F	92 oz/in	PSTC-5
SHEAR STRENGTH @ 72°F 1"x1", 1000g on SS	165+ hrs	PSTC-107
SAFT (°F) 2 mil, on foil	375+	
ADHESIVE THICKNESS ADHESIVE TYPE	1 mil solvent acrylic	
RELEASE LINER	68# clay-coated kraft	

STORAGE

- Shelf life: one (1) year from the date of shipment.
- Store in a clean area free from exposure to excessive heat, moisture or direct sunlight (50°F to 80°F).

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