



TECHNICAL DATA SHEET

DM1005105

Class F 155°C Insulation

A flexible composite composed of non-woven polyester fiber and electrical grade polyester film laminated with a high-temperature adhesive system. DM1005105 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

REPRESENTATIVE PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
NOMINAL THICKNESS , inches	0.020	ASTM D374
YIELD Square yards per pound Pounds per Square Yards	0.98 1.02	
DIELECTRIC STRENGTH (Volts – 2" electrodes)	18,600	ASTM D149
TENSILE STRENGTH (psi) Machine Direction (MD) Cross Machine Direction (XMD)	270 220	ASTM D828
GRAVES TEAR STRENGTH (lbs) Machine Direction (MD) Cross Machine Direction (XMD)	40 30	ASTM D1004
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

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).

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.