



**TECHNICAL DATA SHEET**

# Melinex™ Insulation - 0101ATO (Single Sided) Acrylic Flame Retardant - 1101ATO (Double Sided)

A flexible composite insulation composed of 10 mil type 339 DuPont Melinex™ with an acrylic thermosetting adhesive on one or both sides. The acrylic adhesive is b-staged and can bond with heat and pressure to many substrates. Melinex™ is a translucent white glossy film with similar properties to DuPont Mylar™.

### PRODUCT ATTRIBUTES

- UL VTM-0 compliant
- Excellent electrical properties and chemical resistance
- High adhesive bond strength
- RoHS and REACH compliant

REPRESENTATIVE PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
NOMINAL THICKNESS, inches	0.011 - 0.012	ASTM D374
<b>YIELD</b>		
Square yards per pound	1.54	
Pounds per square yard	0.65	
DIELECTRIC STRENGTH (2" electrodes), Volts: DIELECTRIC CONSTANT (23°C, 50% RH, 100 Hz):	19,000 3.3	ASTM D149
<b>TENSILE STRENGTH</b> , psi		
Machine Direction (MD)	22,000	ASTM D882A
Cross Machine Direction (XMD)	23,000	
<b>PEEL ADHESION (stainless steel), lbf:</b>		
180° Peel	8	ASTM D3330
90° Peel (German Wheel)	11	
<b>LAMINATION PARAMETERS:</b>		
Temperature	310°F - 350°F	
Time	30 minutes	
Pressure	25 - 75 psi	
<b>CONTINUOUS USE TEMPERATURE (PET)</b>	155°C	
<b>UPPER MELT TEMPERATURE (PET)</b>	255 - 260°C	
<b>MINIMUM SERVICE TEMPERATURE (ADHESIVE)</b>	-40°C	

Lamination Parameters are to be used as guidelines only. Samples should be tested for each application to insure proper usability. Parameters can be adjusted to match performance requirements, but curing temperature should never fall below 310°F.

### STORAGE

- Shelf life: one (1) year from 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. Alamotape 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.