



TECHNICAL DATA SHEET

PET Insulation – M10PH1 (Single Sided) Phenolic B-Stage – M10PH2 (Double Sided)

A flexible composite insulation composed of 10 mil PET film coated on one or both sides with Alamotape® Phenolic based thermosetting adhesive system. The thermosetting adhesive is applied to the PET in b-stage form. Once b-staged, the product can be heated and pressed for full cure bonding to many substrates. The adhesive is tack free at room temperature – no release liner is needed.

PRODUCT ATTRIBUTES

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

REPRESENTATIVE PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
NOMINAL THICKNESS (double coated)	0.012 inches	ASTM D374
YIELD:	Double Coat	
Square yards per pound	1.33	
Pounds per square yard	0.75	
DIELECTRIC STRENGTH (2" electrodes):	21,000 Volts	ASTM D149
DIELECTRIC CONSTANT (23°C, 50% RH, 100 Hz):	3.3	ASTM D150-81
TENSILE STRENGTH:		
Machine Direction (MD)	270 lbf	ASTM D828
Cross Machine Direction (XMD)	290 lbf	
180° PEEL ADHESION (stainless steel):		
Phenolic on PET	Exceeds strength of PET > 30 lb/in	ASTM D3330
Phenolic on 7 mil Al foil		
LAMINATION PARAMETERS:		
Temperature	310°F	
Time	30 minutes	
Pressure	25 - 75 psi	
CONTINUOUS USE TEMPERATURE (PET)	150°C	
UPPER MELT TEMPERATURE (PET)	255 - 260°C	
MINIMUM SERVICE TEMPERATURE (PHENOLIC)	-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.