



TECHNICAL DATA SHEET

5105 Tacky Thermoset

Arlon Innovations 5105 Tacky Thermoset performs like a Pressure Sensitive Adhesive (PSA) tape at room temperature and cures to a very high strength with heat and pressure. It is B-stage curable to a permanent thermosetting bond. This tape is ideal for bonding parts without the need for clamping or the mess associated with liquid adhesives.

PRODUCT ATTRIBUTES

- Pressure sensitive adhesive allows parts to be joined without clamping
- Excellent bond strength after curing at elevated temperatures
- Storage stability under ambient conditions - no need for refrigerated storage
- Good penetration into fiberglass scrim and porous materials
- Good metal to metal bonding
- No messy application associated with liquid dispensed adhesives
- No need to wait for extended times for green strength to develop as with liquid adhesives

REPRESENTATIVE PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
UNCURED ADHESION (180°) 15 min, 72°F 2 mil PET on SS 4 mil Al Foil/Stainless Steel	40 oz/in 160 oz/in	PSTC-101
CURED ADHESION (180°) 4 mil Al Foil/Stainless Steel	240 oz/in	
LAMINATION CONDITIONS Temperature (°C) Time (min)	150 30	
LAP SHEAR Q-panel to Q-Panel	200 psi	
SAFT 1"x1", 1000g, Al/Al	530°F	
PRODUCT CONSTRUCTION Liner Thickness Liner Basis Weight Adhesive Coat Weight	3.0 mil 55 lb 54 gsm	

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.