



## TITAN SC

22290 Challenger Drive  
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### TECHNICAL DATA SHEET TRANSPORTATION GRADE HIGH BOND ACRYLIC TAPE SERIES (AT-TG-BK) Black

#### PRODUCT DESCRIPTION:

Titan's Anaconda Transportation Grade High Bond Acrylic Tape products (AT-TG-BK) is a black medium density acrylic foam tape coated with a special adhesive both sides to create a high grade pressure sensitive tape specifically for applications seen in transportation, construction and electronic applications.

#### PRODUCT CHARACTERISTICS:

- UV resistant
- Superior holding power on metals and most plastics
- Excellent ability to handle thermal cycling while maintaining holding power

#### APPLICATIONS:

- Emblems
- Protective Moldings
- Electronics
- Bond LCD and Polycarbonate panels
- Die Cutting

#### SURFACE PREPARATION:

All surfaces should be clean, dry, and free of dust and grease. All surfaces should be abraded and/or primed using the proper abrasion pads and adhesion promoter. Contact your sales consultant for specific recommendations.

#### Shelf life:

12 months in unopened packaging in a cool and dry storage place at temperatures between +69° F and +100° F and 50% relative humidity.

#### COLOR:

Black with a red polypropylene release liner.

#### SIZES:

Thickness Available: .025", other thicknesses upon request  
Widths Available: .25" wide to 36"  
Length Available: 36 yards

**Limited Warranty:** Adhesion Products warrants product to be of good quality and will replace or, at our election, refund the purchase price of any products proved to be defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, ADHESION PRODUCTS MAKES NO WARRANTY OR GUARANTEE, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and ADHESION PRODUCTS shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith.



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### TECHNICAL SPECIFICATIONS:

#### 180° Peel Adhesion Test

Under 23°C x 50%RH, bonded tape 25 micron PE film.  
10mm width. Rolled by 2kg roller one round then test by UTM  
with the speed of 300± 10mm/min.

#### Results:

RT x 2 hrs. = 1800 gf/10mm  
RT x 24 hrs. = 2000 gf/10mm  
80°C x 250 hrs. = 2200 gf/10mm  
-20°C x 250 hrs. = 1500 gf/10mm

#### Dynamic Shear

Under 23°C x 50%RH, bonded tape size 10mm x 10mm.  
Tested speed by 200mm±10mm/min. 75 micron PE film backing.

#### Results:

RT x 2 hrs. = 7.0 kgf/cm<sup>2</sup>  
RT x 48 hrs. = 7.6 kgf/cm<sup>2</sup>  
80°C x 250 hrs. = 8.0 kgf/cm<sup>2</sup>  
-20°C x 250 hrs. = 7.4 kgf/cm<sup>2</sup>

#### Static Shear

Measured at various temperatures and gram loads on stainless steel.  
3.22cm<sup>2</sup> overlap. Hold for 7 days.

#### Temp Load Result

23°C	1500g	OK
93°C	500g	OK

#### Temperature Resistance

Bonded tape at 23°C x 50%RH, & keep it for 1hr loading 500g weight.  
Put it in the oven and increase temp. 3°C/5min and record falling temp.  
Tape width: 20 mm x 20 mm. Substrate: Stainless steel

#### Results:

120°C

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