

BRADY B-505 CONNECTOR PULL TAB

TDS No. B-505
Effective Date: 02/21/2000

Description:

Brady B-505 Connector Pull Tab is constructed from a white, topcoated polyester facestock, and a zone coated, permanent pressure sensitive acrylic adhesive.

Brady B-505 Connector Pull Tab is designed to be flagged around various types of flat cable connectors, so that the flagged end can be grasped by the user in order to facilitate unplugging of the connector from congested connector locations. B-505 is designed to remain flagged, even after exposure to typical solvents, detergents, oils, and elevated temperature.

Brady B-505 Connector Pull Tab has a white, printable topcoat formulated to accept dot matrix print. For best dot matrix print permanence, we recommend the use of our Brady Series R2000 or R5000 cloth ribbons. The topcoat also will accept various types of markers, pencils, and pens. Brady B-505 is highly flame retardant, and passes the requirements of UL94 VTM-0.

Details:

| PHYSICAL PROPERTIES | TEST METHODS | AVERAGE RESULTS |
|---------------------------------|---|---|
| Thickness | ASTM D 1000 -Topcoat -Substrate -Adhesive | 0.0003 inches (0.0076 mm) 0.0050 inches (0.1270 mm) 0.0020 inches (0.0508 mm) |
| Adhesion to: -Itself | ASTM D 1000 20 minute dwell (adhesive to backside) | 90 oz/in (97.7 N/100 mm) |
| Tack | ASTM D 2979 Polyken™ Probe Tack 1 second dwell | 10.8 oz (306 g) |
| Drop Shear | PSTC-7 (1/2" x 1" sample) | 150 hrs+ |
| Tensile Strength and Elongation | ASTM D 1000 -Machine -Cross | 32.5 lbs/in (568 N/100 mm), 130% 29.0 lbs/in (507 N/100 mm), 50% |
| Flammability | UL94 | VTM-0* |

* These results are based on testing performed at Brady USA, Inc. B-505 is not officially recognized by UL as UL94 VTM-0.

| PERFORMANCE PROPERTIES | TEST METHOD | TYPICAL RESULTS |
|-----------------------------|---------------------------------|---|
| High Service Temperature | 30 days at 266°F (130°C) | Very slight discoloration of label. No visible effect to print. No opening of flag. |
| Low Service Temperature | 30 days at -40°F (-40°C) | No visible effect to label or print. No opening of flag. |
| Humidity Resistance | 30 days at 100°F/95% R.H. | No visible effect to label or print. No opening of flag. |
| UV Light Resistance | 30 days in UV Sunlighter™ 100 | No visible effect to label or print. No opening of flag. |
| MIL-M-81531 Print Adherence | 20 rubs on printing with eraser | Print still legible from a distance of 14 inches |

B-505 samples printed with Brady Series R2000 and R5000 ribbons and flagged adhesive to back of marker. Samples dwelled 24 hours prior to subjecting to test environments.

| PERFORMANCE PROPERTY | CHEMICAL RESISTANCE |
|----------------------|---------------------|
|----------------------|---------------------|

Samples printed with Brady Series R2000 and R5000 ribbons and flagged adhesive to back of marker. Samples dwelled 24 hours prior to test. Samples subjected to five 10 minute immersions, each immersion followed by a 30 minute recovery in air. After final immersion, and prior to recovery, print is rubbed 5 times with a cotton swab moistened by the test fluid.

| CHEMICAL REAGENT | SUBJECTIVE OBSERVATION OF VISUAL CHANGE | | | |
|------------------|---|---|---|-------------------------|
| | SUBSTRATE/ ADHESIVE | TOPCOAT/PRINTING: BRADY R2000, R5000 | TOPCOAT/PRINTING: BRADY R2000, R5000 | EXTENT OF UNFLAGGING |
| | | | | |

| | | RIBBON WITHOUT SWAB RUB | RIBBON WITH SWAB RUB | |
|----------------------------|---------------------------|-------------------------|--------------------------|------|
| 1,1,1-Trichloroethane | No visible effect | No visible effect | Complete topcoat removal | None |
| Isopropyl Alcohol | No visible effect | No visible effect | Slight print fade | None |
| ASTM #3 Oil | No visible effect | No visible effect | No visible effect | None |
| Mil 5606 Oil | Topcoat stained light red | No visible effect | No visible effect | None |
| 3% Alconox® Detergent | No visible effect | No visible effect | No visible effect | None |
| 10% Sulfuric Acid Solution | No visible effect | Slight print fade | Complete topcoat removal | None |
| 10% NaOH | No visible effect | No visible effect | Complete topcoat removal | None |
| Water | No visible effect | No visible effect | No visible effect | None |

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **two years from the date of receipt** for this product as long as this product is stored in its original packaging in an environment *below 80 degrees F (27°C) and 60% RH*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

Trademarks:

Alconox® is a registered trademark of Alconox Co.
Polyken™ is a trademark of Testing Machines Inc.
Sunlighter™ is a trademark of the Test Lab Apparatus Company
ASTM: American Society for Testing and Materials (U.S.A.)
MIL: Military Specifications, Naval Air Systems Command, Dept. of the Navy
PSTC: Pressure Sensitive Tape Council (U.S.A.)
UL: Underwriters Laboratories Inc. (U.S.A.)
All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units

Note: All values shown are averages and should not be used for specification purposes.

Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

WARRANTY

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

Copyright 2016 Brady Worldwide, Inc. | All Rights Reserved
Material may not be reproduced or distributed in any form without written permission.