



B-708 - Technical Data Sheet

BRADY B-708: *WHITE VINYL LABEL STOCK*

TDS erhalten von:

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TDS No. B-708

Effective Date: 09-Dec-1999

Description:

Brady B-708 is a semi-gloss white vinyl film with a permanent acrylic pressure sensitive adhesive.

Brady B-708 is used primarily for pre-printed general identification labels.

Brady B-708 has excellent conformability, water and oil resistance, and exhibits good outdoor weathering resistance.

Details:

| PHYSICAL PROPERTIES | TEST METHODS | AVERAGE RESULTS |
|------------------------------------|--|--|
| Thickness | ASTM D 1000 -Substrate -Adhesive -Total | 0.0038 inch (0.097 mm) 0.0010 inch (0.025 mm) 0.0048 inch (0.122 mm) |
| Adhesion to: -Stainless Steel | ASTM D 1000 20 minute dwell 24 hour dwell | 34 oz/in (37 N/100 mm) 44 oz/in (48 N/100 mm) |
| -Polypropylene | 20 minute dwell 24 hour dwell | 32 oz/in (35 N/100 mm) 36 oz/in (39 N/100 mm) |
| -Textured ABS | 20 minute dwell 24 hour dwell | 6 oz/in (7 N/100 mm) 9 oz/in (10 N/100 mm) |
| Tack | ASTM D 2979 Polyken™ Probe Tack 1 second dwell | 21 oz (600 g) |
| Tensile Strength and Elongation | ASTM D 1000 -Machine Direction | 14 lbs/in (245 N/100 mm), 125% |
| Application Temperature | Lowest application temperature to steel | 45°F (7°C) |

B-708 samples tested for Performance Properties were applied to aluminum panels and allowed to dwell 24 hours at room temperature prior to testing. Samples were tested unprinted.

| PERFORMANCE PROPERTIES | TEST METHODS | TYPICAL RESULTS |
|--------------------------|--|---|
| High Service Temperature | 30 days at 158°F (70°C) | No visible effect. At higher temperatures up to 90°C, label is still functional, but exhibits slight discoloration. |
| Low Service Temperature | 30 days at -40°F (-40°C) | No visible effect. |
| Humidity Resistance | 30 days at 100°F (37°C), 95% R.H. | No visible effect. |
| UV Light Resistance | 30 days in UV Sunlighter™ 100 | No visible effect. |
| Weatherability | ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer | No visible effect. |
| Salt Fog Resistance | ASTM B 117 30 days in 5% salt fog solution chamber | No visible effect. |

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

Samples were laminated to aluminum panels and dwelled 24 hours prior to test. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. Testing was conducted at room temperature.

| CHEMICAL REAGENT | SUBJECTIVE OBSERVATION OF VISUAL CHANGE |
|---------------------------------------|---|
| Methyl Ethyl Ketone | Label material dissolved. |
| 1,1,1-Trichloroethane | Label material dissolved. |
| Isopropyl Alcohol | No visible effect. |
| SAE 20 WT Oil | No visible effect. |
| Mil 5606 Oil | No visible effect. |
| Speedi Kut Cutting Oil 332 | No visible effect. |
| Gasoline | Slight label edge lift. |
| Rust Veto® 377 | Moderate discoloration of vinyl. |
| Deionized Water | No visible effect. |
| 3% Alconox® Detergent | No visible effect. |
| Northwoods™ Buzz Saw Citrus Degreaser | No visible effect. |

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.
Northwoods™ is a trademark of the Superior Chemical Corporation.
Polyken™ is a trademark of Testing Machines Inc.
Rust Veto® is a registered trademark of the E.F. Houghton & Co.
Sunlighter™ is a trademark of the Test Lab Apparatus Company
ASTM: American Society for Testing and Materials (U.S.A.)
SAE: Society of Automotive Engineers (U.S.A.)
All U.S. Conventional Units are mathematically derived from the S.I. (metric)
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.

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