



Technical Data Sheet

BRADY B-7589 VINYL FILM WITH PERMANENT ADHESIVE

TDS No. B-7589
Effective Date: 04/10/2011

Description:

B-7589 is a thermal transfer printable flexible vinyl film coated with a permanent pressure sensitive acrylic adhesive and backed with a kraft release liner. B-7589 is designed to be used with the Minimark™ printer.

Details:

Use:

Brady B-7589 is used for Pipemarker, Arrow Tape, Warehouse Marking, Warning Panels, Safety Signs and Hazardous Substances Identification.

Special Properties:

Permanent acrylic adhesive

Substrate Type:

Vinyl film

Standard Material Colors:

White, red, yellow, green, blue, orange, black, gray, brown, gold, purple, clear.

Recommended ribbons

Standard performance ribbon black and white R-7968.
Standard performance ribbon red, green and blue R-7969
or
High performance ribbon black (R-6000), white, red, green and blue (R-4400)

Thickness (PSTC-33):

Total: 0.105 mm (0.004 in.)

Adhesive properties:

Adhesion to Steel (PSTC-1)
Ultimate dwell (24 hrs.) (Avg.) -- 41.175N/100mm (37.3 oz/in)
Ultimate dwell (72 hrs.) (Avg.) -- 59.4 N/100 mm (54 oz/in)
Tack (ASTM D2979) (Avg.) -- 470 g (4.7N)

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):

CS-10 wheels, 250 g wts.
After 100 cycles the legend printed with R-7968 has a moderate fading.

Minimum Application Temperature:

10° C

Service Temperature:

-20° C to 75° C

Average Outdoor Durability:

Up to 2 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques and material color.)
Material is not suited for extended outdoor use.

Chemical Resistance

Samples were printed with the standard performance ribbons R-7968/R-7969 and the high performance ribbons R-6000/R-4400 using the Minimark™ thermal transfer printer. Printed samples were laminated to aluminium and

allowed to dwell 24 hours prior to testing. Test conducted at room temperature except where noted. Testing consisted of 5 cycles of 10 minute immersions in the specified test fluid followed by a 30 minute recovery period. After final immersion the samples were rubbed 10 times with cotton swabs saturated with test fluid.

Reagent	SUBJECTIVE OBSERVATION OF VISUAL CHANGE			
	Standard performance ribbons		High performance ribbons	
	Dip test	Rub test	Dip test	Rub test
Sulfuric acid 10%	NE	F	NE	NE
NaOH 5%	NE	NE	NE	NE
Ethanol	NE	F	NE	NE
Isopropyl alcohol	NE	F	NE	NE
Methyl Ethyl Ketone	F	F	F	F
Acetone	F	F	F	F
Toluene	F	F	F	F
Diesel	NE	NE	NE	NE
Gasoline	F	F	F	F
Water	NE	NE	NE	NE

NE: No Effect

F: Failed (affected sample)

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°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:

Minimark™ is a registered trademark of Brady Worldwide, Inc.

PSTC: Pressure Sensitive Tape Council (U.S.A.)

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 2011 W.H. Brady, N.V. | All Rights Reserved
Material may not be reproduced or distributed in any form without written permission.