

BRADY B-455 PVC SIGNS

TDS No. B-455
Effective Date: 09/27/2011

Description:

BRADY B-455 is a PVC sign material, surface printed.

BRADY B-455 signs can be used for a wide variety of applications: safety signs, safety texts, special panels, BI&V- shaped signs.

This material is white base stock printed in various colors

Details:

PHYSICAL PROPERTIES	TEST METHOD	AVERAGE RESULTS (SI-Units)
Thickness	PSTC-31	1,5 mm (0,6 in)
Tensile strength	DIN 53 455	48 N / mm ²
Elongation	DIN 53 452	10%

PERFORMANCE PROPERTIES	TEST METHOD	AVERAGE RESULTS
Service Temperature	30 days at -20° C (-4° F) 30 days at 70° C (158° F)	N.V.E. N.V.E.
Humidity Resistance	30 days in humidity chamber Temperature = 38° C (100,4° F) Humidity = 95%	N.V.E.
UV Light Resistance	30 days in UV light chamber - Green - Red	N.V.E. N.V.E.
Weatherability	ASTM G-53 (30 days QUV) - Green - Red	SL.F. SL.F.
Abrasion Resistance	method 5306 US fed. test CS 10 wheels, 500g/arm 100 cycles - Green - Red	Pass Pass

N.V.E.: No Visible Effect

SL.F.: Slight Fading

PERFORMANCE PROPERTIES	CHEMICAL RESISTANCE
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Test conducted at room temperature. Testing consisted of 5 cycles of 10 minute immersions in the specified test fluid followed by a 30 minute recovery period. After final immersion, samples rubbed 10 times with cotton swab saturated with test fluid.

Chemical Reagent	Subjective Observation of Visual Change	
	After immersion	Q-tip rub after final immersion
Petroleum ether	N.V.E.	N.V.E.
Mineral oil	N.V.E.	N.V.E.
1,1,1- Trichloroethane	N.V.E.	After rubbing ink is removed
Alcohol mixture*	N.V.E.	After rubbing ink is removed
Isopropanol	N.V.E.	After rubbing ink is removed
Sulphuric acid (5%)	N.V.E.	N.V.E.
Sodium hydroxide (5%)	N.V.E.	N.V.E.
Sodium Chloride (5%)	N.V.E.	N.V.E.
Soft soap	N.V.E.	N.V.E.
Water	N.V.E.	N.V.E.

N.V.E.: No Visible Effect

* Alcohol mixture: 50% Methanol, 30% Ethanol, 20% Distilled water

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:

ASTM: American Society for Testing and Materials (U.S.A.)

DIN: Deutsche Industry Norm

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

S. I.: International System of 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.

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Brady Europe | Industriepark C3 Lindestraat 20 | B9240 Zele | Belgium | Tel: +32 52.45.7811 | Fax: +32 52.45.7812