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Technical Data Sheet

BRADY B-930 PERMANENT VINYL SIGN

TDS No. B-930

Effective Date: 05.12.2001

Description:

Brady B-930 is a flexible plastic film coated with a permanent pressure sensitive acrylic adhesive.

Brady B-930 is used for pictograms and blank panels.

B-930 adheres well to most surfaces. The material has excellent resistance to water, oil, grease.

B-930 is available in black, white, yellow, yellow (Ral 1028), blue, green and red.

Details:

PHYSICAL PROPERTIES	TEST METHOD	AVERAGE RESULTS
Thickness	ASTM D 1000 - Substrate - Adhesive - Total	0.090 mm (0.0035 inch) 0.015 mm (0.0006 inch) 0.105 mm (0.0041 inch)
Drop Shear	PSTC-7	4 hours
Tack	ASTM D 2979 Polyken™ Probe Tack (1 sec dwell, 1 cm/sec separation)	528 g (19 oz)
Adhesion to:	ASTM D 1000	
- Stainless steel	20 min dwell time 24 hours dwell	55 N/100 mm (50 oz/inch) 63 N/100 mm (58 oz/inch)
- Polypropelene	20 min dwell time 24 hours dwell	57 N/100 mm (52 oz/inch) 66 N/100 mm (60 oz/inch)
- Aluminium	20 min dwell time 24 hours dwell	44 N/100 mm (40 oz/inch) 57 N/100 mm (52 oz/inch)
- Textured ABS	20 min dwell time 24 hours dwell	12 N/100 mm (11 oz/inch) 13 N/100 mm (12 oz/inch)
- Glass	20 min dwell time 24 hours dwell	39 N/100 mm (36 oz/inch) 61 N/100 mm (56 oz/inch)
Abrasion Resistance	Method 5306 US Federal Test 191 A 100 cycles	
	Facestock (CS 10, Normal duty) (CS 10, Heavy duty)	No visible effect No visible effect
	Blue ink (CS 10, Normal duty) (CS 10, Heavy duty)	Slight fading Slight fading
	Red ink (CS 10, Normal duty) (CS 10, Heavy duty)	Slight fading Slight fading

Performance properties tested on B-930. Preprinted samples were laminated to aluminium and allowed to dwell 24 hours before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
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High Service Temperature	30 days at 80 °C	No visible effect
Low Service Temperature	30 days at -20 °C	No visible effect
Application Temperature	Lowest application temperature to Stainless Steel	0 °C
Humidity Resistance	30 days in humidity chamber at 38 °C and 95% R.H.	No visible effect
U.V. Resistance	30 days in U.V. light chamber	No visible effect
Q.U.V. Resistance	30 days QUV (ASTM G 53)	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples preprinted with silkscreen ink. Samples laminated to aluminium panels and allowed to dwell 24 hours prior to testing. 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	
	EFFECT TO LABEL STOCK	EFFECT TO PRINT
Isopropanole	No visible effect	Slight fading
MEK	Label not resistant	Label not resistant
Alcohol mixture*	No visible effect	No visible effect
1,1,1 Trichloroethane	Severe adhesive ooze	No visible effect
Toluene	Label not resistant	Label not resistant
Ethylacetate	Label not resistant	Label not resistant
Ammonia (5%)	No visible effect	No visible effect
Sodium chlorid (5%)	No visible effect	No visible effect
Sulphuric acid (5%)	No visible effect	No visible effect
Skydrol® 500 B-4	Severe adhesive ooze	Slight/Moderate fading
Mineral oil	No visible effect	No visible effect

* 50% Ethyl alcohol, 30% Methyl alcohol, 20% Distilled water.

Trademarks:

Polyken™ is a trademark of Testing Machines Inc.

Skydrol® is a registered trademark of the Monsanto Company

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

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.

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