

Clear Glossy Polyolefin Labelstock with THT Printable White Zone

TDS No. B-6427
Effective Date: 09/03/2010

Description:

GENERAL

Print Technology: Thermal Transfer (THT)

Materials Type: Polyolefin based

Finish: Glossy

Adhesive: Acrylic

RECOMMENDED RIBBONS

Brady Series R7962
Brady Series R4900, R6200, R7961 (alternates)

APPLICATIONS

Wrap-around on wire to a minimum of 2mm (diameter) cable applications

COMPLIANCE

B-6427 is halogen-free in accordance to definition in IEC61249-2-21 and IPC-4101B, tested using IPC-TM-650.

B-6427 is RoHS compliant in accordance to the EU Directive 2002/95/EC and its amendments.

B-6427 is free of Substances of Very High Concern (SVHC) based on the publication by European Chemicals Agency (ECHA) on 2008 October 28, regarding Regulation (EC) No 1907/2006 concerning the REACH. (Note: As the SVHC list is still in the process of change. For latest update, please contact your sales representatives.)

B-6427 is UL 969 recognised as per UL969 standard.
(Refer to www.ul.com for File# PGJ12.MH25991 for details)

Details:

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D1000 - Substrate - Adhesive - Total	0.060mm (0.0024 in) 0.030mm (0.0012 in) 0.090mm (0.0036 in)
Peel Adhesion to:	ASTM D1000	
- Stainless Steel	- 20 minute dwell - 24 hour dwell	72 oz/in (78 N/100mm) 71 oz/in (77 N/100mm)
Drop Shear	PSTC-7 1 kg weight, test area of 1" x 0.5", stainless steel	> 5 days

Performance properties tested on B-6427 were printed with Series R4900, R6200 and R7962 ribbons using BradyPrinterä THT Model 600X-Plus Thermal Transfer printer. Printed samples were wrapped around 2 mm diameter PVC wire cable and allowed to dwell 24 hours before exposure to the indicated environment. Unless noted, results are the same for all ribbons stated as above.

PROPERTIES	TEST METHOD	TYPICAL RESULTS
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 250g load (Printed label is self-laminated and pasted flat on a sample panel before subjected to abrasion)	Print remained legible up to 100 cycles.
Weathering Resistance	ASTM G154 1000 hours exposure in Xenon Arc Weatherometer	Print remained legible and unwrapping of label was not observed.
Humidity Resistance	37degC/ 95%RH	Print remained legible and unwrapping of

	1000 hours exposure in humidity chamber	label was not observed.
Low Service Temperature Resistance	-40degC 1000 hours exposure in freezer	Print remained legible and unwrapping of label was not observed.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with Series R4900, R6200 and R7962 ribbons using a BradyPrinterä 600X-Plus thermal transfer printer. Samples were wrapped around 2 mm diameter PVC wire cable and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 15 minute immersion in specified test fluid. After immersion, the samples were removed from the test fluid and the printed image and degree of wrapping were to be observed. A rating scale of 1 – 5 is used in the table below to show the print quality of the samples tested upon exposure to different chemicals.

CHEMICAL REAGENT	EFFECTS TO MATERIAL (ON WRAP AROUND)	EFFECT TO PRINTED IMAGE		
		R7962	R4900	R6200
Brake Fluid	Slight unwrapping of label was observed	1	1	1
DI water	No unwrapping of label was observed	1	1	1
Gasoline	Moderate unwrapping of label was observed	1	1	1
Isopropyl alcohol	Moderate unwrapping of label was observed	1	1	1
Mineral spirit	No unwrapping of label was observed	1	1	1
SAE 40 motor oil	No unwrapping of label was observed	1	1	1

Rating scale:

- 1 = No visible effect**
- 2 = Slight print removal**
- 3 = Moderate print removal**
- 4 = Severe print removal**
- 5 = Complete print removal**

Trademarks:

ASTM: American Society for Testing and Materials (U.S.A.)
BradyPrinter™ is a trademark of Brady Worldwide, Inc.

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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