ALTEC INDUSTRIAL IDENTIFICATION

Technical datasheet

B483

THERMAL TRANSFER PRINTABLE GLOSS WHITE POLYESTER

Ask for UL regulations

Description

B483 is designed for high adhesion to textured metals and low surface energy plastics.

Material	Polyester	**Temperature**	-40°C / 120°C
Finishing	Glossy	**Print technology**	Thermal transfer
Color	White	**Ribbon(s)**	AR-10
Adhesive	Permanent rubber based		

Physical data / Test results

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 - Substrate - Adhesive - Total	 0.0020 inch (0.051 mm) 0.0020 inch (0.051 mm) 0.0040 inch (0.102 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	 155 oz/in (169 N/100 mm) 160 oz/in (174 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	55 oz/in (60 N/100 mm) 54 oz/in (59 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	140 oz/in (153 N/100 mm) 143 oz/in (156 N/100 mm)
-Painted Enamel	20 minute dwell 24 hour dwell	144 oz/in (157 N/100 mm) 149 oz/in (162 N/100 mm)
-Powder Coated Metal	20 minute dwell 24 hour dwell	102 oz/in (111 N/100 mm) 104 oz/in (113 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 0.5 second dwell	 39 oz (1122 g)

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The following testing was performed on B483 samples. Samples were laminated to aluminum before exposure to the indicated environmental condition. Results the same for both ribbons unless noted otherwise.

PHYSICAL PROPERTIES	TEST METHODS	TYPICAL RESULTS
Long Term High Service Temperature	30 days at 248°F (120°C)	No visible effect
Long Term 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
Abrasion Resistance	Taber Abraser, CS10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306)	Print legible after 100 cycles

Labels printed using a 3:1 barcode ratio with a 5 mil narrow X dimension bar. Test was conducted at room temperature after 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery period. Samples rubbed 10 times with a cotton swab immersed in test fluid after final immersion.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE			
	EFFECT TO LABEL STOCK	R4900	R6000	R6000HF
Methyl Ethyl Ketone	Slight adhesive ooze	No visible effect w/o rub, complete print removal after rub	No visible effect w/o rub, complete print removal after rub	No visible effect w/o rub, complete print removal after rub
1,1,1-Trichloroethane	No visible effect	No visible effect w/o rub, complete print removal after rub	No visible effect w/o rub, complete print removal after rub	Obsolete
Toluene	No visible effect	No visible effect w/o rub, complete print removal after rub	No visible effect w/o rub, complete print removal after rub	No visible effect w/o rub, complete print removal after rub
Isopropyl Alcohol	No visible effect	No visible effect with or without rub	No visible effect with or without rub	No visible effect with or without rub
Mineral Spirits	Slight adhesive ooze	No visible effect with or without rub	No visible effect with or without rub	No visible effect with or without rub
JP-8 Jet Fuel	No visible effect	No visible effect with or without rub	No visible effect with or without rub	No visible effect with or without rub
SAE 20 WT Oil	No visible effect	No visible effect with or without rub	No visible effect with or without rub	No visible effect with or without rub
Mil 5606 Oil	Slight adhesive ooze	No visible effect with or without rub	No visible effect with or without rub	No visible effect with or without rub

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Speedi Kut Cutting Oil 332	No visible effect	No visible effect with or without rub	No visible effect with or without rub	Not tested
Gasoline	Slight adhesive ooze	No visible effect w/o rub, slight print removal after rub	No visible effect w/o rub, slight print removal after rub	No visible effect
Rust Veto® 342	No visible effect	No visible effect with or without rub	No visible effect with or without rub	Not tested
Skydrol® 500B4	No visible effect	Moderate print removal w/o rub, complete print removal with rub	No visible effect w/o rub, complete print removal after rub	No visible effect w/o rub, severe print removal after rub
Super Agitene®	Slight adhesive ooze	No visible effect with or without rub	No visible effect with or without	No visible effect with or without
Deionized Water	No visible effect	No visible effect with or without rub	No visible effect with or without	No visible effect with or without
3% Alconox® Detergent	No visible effect	No visible effect with or without rub	No visible effect with or without	No visible effect with or without
Northwoods™ Buzz Saw Citrus Degreaser	No visible effect	No visible effect	No visible effect	No visible effect

Storage

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.

Certificates

UL

B483 is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with Series R6000 and Series R6000 Halogen Free ribbons. See UL file MH17154 for specific details. UL information can be accessed on line at UL.com. Search in Certifications area. The Series R4900 ribbon is also UL approved.

CSA

B483 is CSA Accepted to C22.2 No.0.15-95 Adhesive Labels Standard when printed with Series R6000 ribbon.
See CSA file 041833 for specific details. CSA information can be accessed online at directories.csa-international.org.

RoHS

This item is manufactured or purchased in accordance with, and conform to the Altec product specifications.

We refer to the REACH legislation 1907/2006. SVHC's on the Candidate list published by the ECHA (European Chemicals Agency) on 16th January 2020 have not been intentionally added to the products listed below – as well as any articles contained within the products - and therefore, to the best of our knowledge, are not contained above 0,1% wt/wt.

This certificate does not cover any packaging accompanying the material and only covers the material as applied. This information is based upon information provided by suppliers, technical assessment of products, or based on results of testing using recognized analytical methods

performed by a third party, independent laboratory. As such, Altec makes no independent representations or warranties - expressed or implied - and assume no liability in connection with the use of this information.

REACH

B483 labels are manufactured or purchased in accordance with, and conform to the Altec product specifications.

We refer to the REACH legislation 1907/2006. SVHC's on the Candidate list published by the ECHA (European Chemicals Agency) on 8th July 2021 have not been intentionally added to the products listed below – as well as any articles contained within the products - and therefore, to the best of our knowledge, are not contained above 0,1% wt/wt.

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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 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 to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Altec 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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