Gloss White Polyimide (2mil) - 517

Description:

A special 2mil Polyimide film with a high temperature permanent pressure sensitive acrylic adhesive and a high opacity, the White topcoat is specifically designed for thermal transfer printing. The 517 can be considered Static Safe as when a *small label is peeled from its release liner, less than 50 volts of electrostatic charge is generate, making it safe to use in static free work environment. (*small label – a 6.5mm X 8mm label)

Features/Uses:

Designed for barcode or alphanumeric identification of printed circuit boards, or related electronic components. It is the ideal label to withstand surface mount board processes, on either the top or bottom side of the board. It can also be used on the topside of the board in mixed processes, and is the recommended label for bottom side that is directly exposed to the wave solder environment.

Properties:

The print resists smearing even when the label and board are directly removed from a reflow or wave solder environment. Preheating the labeled product can further enhance print permanence in the case of extreme solvent and/or abrasion exposure, although this is not typically required for board processing applications. In combination with the appropriate thermal transfer ribbon, passes the requirements of MIL-STD-202G, Notice 12, Method 215K.

Recommended TT Ribbons:

RHT40 (103), 104, 121, 140, 376

Thickness:

	Average Results USA Units	SI Units
Substrate	0.0024 inch	0.061 mm
Adhesive	0.0015 inch	0.038 mm
Total	0.0039 inch	0.99 mm

Adhesion:

	Test Methods	Average Results USA Units	SI Units
Stainless steel	20 minute dwell	≥35 oz/in	38 N/100 mm
	24 hour dwell	≥40 oz/in	44 N/100 mm

Temperature Rating:

-40 to 932ºF (-40 to 500ºC)
100 hours at 125ºc, 5 minutes at 260ºc, 90 seconds at 300ºc.

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Heat/Chemical/ Abrasion Resistance:

Test Environment	PCS	Read Rate
Control 70C	99%	100%
Alpha Metals Inc. 2110 Saponifier 10% aqueous, 70°C, 5 minutes	97%	100%
Isopropanol 99%, 70°C, 5 minutes	99%	100%
Kyzen XJN 30%, 70C, 5 min	99%	100%

Electrical Characteristics:

Dielectric Strength	247KV/mm
Top Side Resistance	$3X10^{12}\Omega$
Adhesive side Resistance	$4X10^{12}\Omega$

Shelf Life: One year when stored at 70° F (21°C) @ 50% RH +/- 10%

All Sl units are mathematically derived from U.S. conventional 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 Link Hamson 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 Link Hamson for further information.

Warranty: Link Hamson recommends that a selected label type be thoroughly tested to insure it meets all end user requirements. Link Hamson warrants only the purchaser that its products are free from defects in material and workmanship. Link Hamson limits its obligation under this warranty and at its option to repair or replace the product. This warranty is in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. Link Hamson is not liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising out of the use of or inability to use such product.

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