

## Technical Data Sheet

### Semi Gloss White Static Safe Polyimide – 730

**General Description:** A 1 mil static dissipative polyimide label stock with a permanent pressure sensitive acrylic adhesive and high opacity white topcoat specially designed for thermal transfer printing.

**Uses & Features:** The 730 is Static Safe product in accordance with EIA 625, EIA 541. It is designed for bar code and alphanumeric identification of printed circuit boards and related electronic components. The label can withstand surface mount board processes, on either the top or bottom side of the PCB even if directly exposed to the wave solder. In combination with the recommended ribbon the 730 passes the requirements of MIL-STD-883E, Notice 4' Method 2015.13 and MIL-STD-202G, Notice 12, Method 215K

**Properties:** When printed with appropriate thermal transfer ribbon, the print resists smearing even after exposure to wave soldering. Also, preheating of printed label product can enhance its durability to extreme solvent and/or abrasion exposure. When the label is peeled from the release liner, less than 25 volts per square inch of electrostatic charge is generated, making it safe to use in static free work environment per EIA 625 and EIA 541.

**Thickness:**

	USA Units (In)	SI Units (mm)
Face Film	0.0015	0.039
Adhesive	0.0010	0.025
Total	0.0026	0.066

**Adhesion:**

	USA Units (oz/In)	SI Units (N/100mm)
20 minute dwell	≥27	30
24 Hour dwell	≥30	33
Tack (ASTM D2979) 1 sec dwell	25 oz	710gr

**Heat/Chemical/Abrasion Resistance<sup>1</sup>:**

Test Environment	PCS	Read Rate
Control 70 °c, 5 minutes.	99%	100%
Kyzen XJN+, 30% aqueous, 70 °c, 5 min.	100%	99%
Alpha Metals Inc. 2110 Saponifier 6% aqueous, 70 °c, 5 minutes.	97%	100%
Isopropanol 99%, 70 °c, 5 minutes	99%	100%

**Recommended Ribbons:** Nortec 103, 140, 102 or 148 Thermal Transfer Ribbons.

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**Temperature performance:**

Performace properties	Test Method	Typical results
Long term	100 hours at 302°F (125°C)	No visible effect to label
operating	300 seconds at 500°F (260°C)	No visible effect to label
Short Term High Service Temperature	90 seconds at 572°F (300°C)	No visible effect to label

**Electrical Properties:**

Test Method	Label surface
ESO/ESD S.11.11	$\geq 10^8 \Omega$ and $\leq 10^{11} \Omega$
Peel Value (EIA 625, EIA 541)	< 100 Volts

**Storage stability & Shelf life:**

1 year below 80°F (27°C) and 60% R.H.

**Material Compliance:**

RoHS 2002/95/EC	Limits set forth in directive 2005/618/EC amending directive 202/95/EC
REACH 1907/2006/EC	Limits set forth in directive 1907/2006/EC article 7.
Halogen IEC 61249-2-21	Limits set forth in international electrochemical commission

**General 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 NORTEC 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 NORTEC for further information.

**Warranty:**

NORTEC AMI Ltd. recommends that a selected label type be thoroughly tested to insure it meets all end user requirements. NORTEC Ltd. warrants only the purchaser that its products are free from defects in material and workmanship. NORTEC 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. NORTEC 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.