Electronic Imaging Materials, Inc.

Labels that Last

410 White Semi-Gloss Lead-Free Polyimide

Description: The environmental impact of lead and other hazardous substances released from electronic equipment has become a major concern of consumers and governments around the globe. As manufacturers work to remove lead from their products, they found that the new lead-free alloys have higher melting points that require higher soldering temperatures. This means that labels placed on boards to track assembly must also meet those higher temperatures and forced changes in label constructions.

Our preimidized 410 Polyimide has been specifically developed to withstand the tough conditions on both the top or bottom of boards - providing excellent resistance to harsh fluxes, cleaners, saponifiers and direct contact with molten solder. It is also more resistant to edge lift, solder flux, browning and cleaning solvents than earlier polyimide materials. RoHS and WEEE Compliant.

Recommended Printing Ribbons: To meet MIL-STD-202F, Notice 12, Method 215J and MIL-STD-883E, Notice 4, Method 2015.13 use **T84 or T80 Resins.** The print resists smearing even right after removal from reflow or wave soldering.

	Face Stock	Adhesive	Liner
Type	Polyimide	Permanent Acrylic	Coated Paper*
Color	White	Clear	White
Caliper	0.0024 inch / 2.4 mil	0 .0020 inch / 2 mil	0 .0031 inch / 3.1 mil
Basis Weight	-	-	42# (24 x 36 x 500)

*** For Clean Room Applications,** EIM can provide this material on a film liner with plastic cores.

	Short Term	2 Hours	Long Term
Service Temp. Range	600°F (315°C) for 50 minutes	338°F (170°C) with no visible effect to label at 170°C, 374°F (190°C), or 428°F (220°C)	212°F (100°C) for 1000 hours No visible effect to label at 248°F (120°C) Label discolors slightly at 293°F (145°C)

Out Gassing
ASTM E595 TML ≤ 0.70%, CVCM ≤ 0.01%, WVR ≤ 0.60%

	Peel Test - Applied to Stainless Steel, per ASTM D 100
20 Minute Dwell	35 oz / inch
24 Hour Dwell	40 oz / inch

	Temperature	Humidity	Shelf Life
Recommended Storage Conditions	80°F (27°C)	60% R.H.	One Year

NOTE: Due to the variety of application conditions, Electronic Imaging Materials strongly encourages the end-user to do thorough testing of all label products under consideration to make sure they will meet the application requirements.