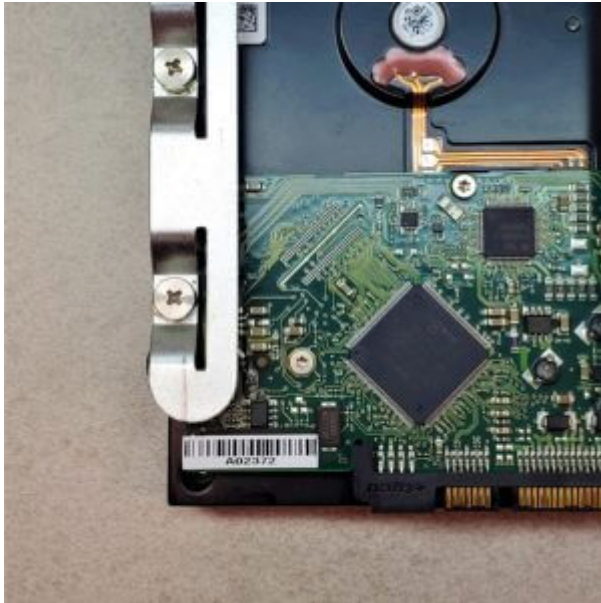




## High Temperature Polyimide Labels

- Abrasion and temperature resistant up to 572°F
- Maintains readability in harsh environments
- Barcoding and serialization available
- Thermally stable at both high and low temperatures

## Description

Our High Temperature Labels are used for identification of high-heat items like circuit boards and related electronic components, where a soldering flux or wave soldering process is used or if the product will be exposed to a chemical cleaning cycle. Backed with a pressure-sensitive acrylic adhesive, these labels have excellent barcode readability after chemical and high-temp exposure.

UL 969 approved

| Test Method*                        | Test Environment                                          | PCS <sup>1</sup> | Read Rate <sup>2</sup> |
|-------------------------------------|-----------------------------------------------------------|------------------|------------------------|
| Heat/Chemical Resistance Test-80386 | Control                                                   | 99%              | 100%                   |
|                                     | Kyzen Corp. Aquanox SSA 30% aqueous, 40-45°C, 5 min.      | 100%             | 99%                    |
|                                     | Re-entry KNI 2000 Terpene 40-45°C, 5 min.                 | 98%              | 100%                   |
|                                     | Alpha Metals 2110 Saponifier 10% aqueous, 65-70°C, 5 min. | 97%              | 100%                   |
|                                     | Isopropanol 99%, 65-70°C, 5 min.                          | 99%              | 100%                   |
|                                     | Kyzen XJN+, 30% 5 min.                                    | 99%              | 100%                   |



<sup>1</sup>PCS – Print Contrast Signal. PCS determined with Quick Check 650, 0.005” aperture, 660 nm wavelength. Quick Check 650 manufactured by: Photographic Sciences Corp.

<sup>2</sup>Read rate determined using PSC 850 laser scanner.

## Test Method\*

MIL-STD-202G, Notice 12, Method 215K MIL-STD-883E, Notice 4, Method 2015.13

| Properties          | Test Fluid                                    | Results                       |
|---------------------|-----------------------------------------------|-------------------------------|
| Chemical Resistance | Solvent A-1 part IPA, 3 parts mineral spirits | No visible effect             |
|                     | Solvent B-1,1,1 Trichloroethane               | Solvent deleted per notice 12 |
|                     | Solvent C-Terpene Defluxer                    | No visible effect             |
|                     | Solvent D- Saponifier                         | No visible effect             |

\*Please Note: Test results may differ depending on conditions during actual use



## Additional information

|                                 |                                                                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number                    | WFC-BC-POLYIMIDE Polyimide High Temperature Labels                                                                                                                                                    |
| Applications                    | Medical Equipment, Power Equipment Labeling, Asset Marking, Asset Tracking, Barcode Labeling, Electronic Equipment & Devices, Harsh Environments, High Temperature, Manufacturing, Product Marking    |
| Material                        | Polyimide Facestock with Acrylic Adhesive                                                                                                                                                             |
| Overall Thickness               | 4.4 mil $\pm$ 10%                                                                                                                                                                                     |
| Expected Outdoor Life           | 7 - 10 Years                                                                                                                                                                                          |
| Temperature Service Range       | -40°F to 437°F                                                                                                                                                                                        |
| Minimum Application Temperature | 50° F                                                                                                                                                                                                 |
| Adhesive                        | Permanent Acrylic                                                                                                                                                                                     |
| Adhesion                        | Adhesion to Acrylic at 72 hr. dwell: Very Good, Adhesion to LSE Plastics: Fair, Adhesion to HSE Plastics: Good, Adhesion to Glass at 72 hr. dwell: Good, Adhesion to Steel at 72 hr. dwell: Very Good |
| Shelf Life                      | 1 Year, Stored @ 80° F / 60% Relative Humidity                                                                                                                                                        |