

**General Description:**

: This thermal transfer printable matte white polyimide label stock is designed for printed circuit board and electronic component pre-process labeling. It features a matte finish and a permanent acrylic adhesive, making it ideal for high-temperature and harsh environment applications.

**PRODUCT SPECIFICATIONS:**



**Print Technology:** Thermal Transfer

**Material Type:** Polyimide

**Finish:** Matte

**Adhesive:** Permanent Acrylic

**APPLICATIONS:** This label stock is suitable for electronic component pre-process labeling, particularly in printed circuit board applications where resistance to high temperatures and harsh conditions is required.

**PHYSICAL PROPERTIES:**

- **Adhesion to:**
  - **Stainless Steel:** 39 oz/in (43 N/100 mm) after 20 minutes dwell, 49 oz/in (53 N/100 mm) after 24 hours dwell
  - **Epoxy PC Board:** 32 oz/in (35 N/100 mm) after 20 minutes dwell, 39 oz/in (43 N/100 mm) after 24 hours dwell
- **Thickness:**
  - **Substrate:** 0.0027 inch (0.068 mm)
  - **Adhesive:** 0.0017 inch (0.043 mm)
  - **Total (excluding liner):** 0.0044 inch (0.111 mm)
- **Tack:** 56 oz (1576 g)
- **Dielectric Strength:** 10700 volts
- **Flammability:** Average burn time < 2 seconds

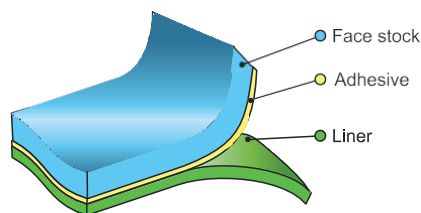
**PERFORMANCE PROPERTIES:**

- **Short Term High Service Temperature:** No visible effect to label at 572°F (300°C) for 80 seconds; slight discoloration at 608°F (320°C) but still functional; moderately discolored at 662°F (350°C) but label remains functional.



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## MATTE WHITE POLYIMIDE



- **5 Minutes at Various Temperatures:** No visible effect to label at 260°C; slight discoloration at 270°C; moderate discoloration at 300°C with adhesive discoloration at label edge, but label remains functional.
- **2 Hours at Various Temperatures:** No visible effect to label at 170°C; slight discoloration at 190°C; moderate discoloration at 220°C; severe discoloration at 260°C, but label remains functional.
- **Long Term High Service Temperature:** No visible effect at 100°C after 1000 hours; slight discoloration at 120°C; moderate discoloration at 145°C, but label remains functional.
- **Low Service Temperature:** No visible effect after 1000 hours at -94°F (-70°C)
- **Humidity Resistance:** No visible effect after 1000 hours at 100°F (37°C) and 95% relative humidity
- **UV Light Resistance:** Topcoat turns light yellow after 1000 hours in Q-Sun Xenon Test Chamber; label remains functional
- **Weatherability:** Slight discoloration after 1000 hours in Xenon Arc Weather-Ometer®
- **Salt Fog Resistance:** No visible effect after 1000 hours in 5% salt fog solution chamber
- **Abrasion Resistance:** Print remains legible after 100 cycles with Taber Abraser, CS-10 grinding wheels, 500 g/arm

**CHEMICAL RESISTANCE:** The label stock was tested against various chemicals, showing varying degrees of resistance. In general, it performed well with minimal effect under most conditions.



**SHELF LIFE:** : Shelf life is two years from the date of receipt for this product when stored in its original packaging at or below 80°F (27°C) and 60% RH. It remains the responsibility of the user to assess the risk of using this product.