

# Cleanroom 2 Label

## Direct Thermal PMA4369A

# DATA SHEET

### Description

PMA4369A is a direct thermal printable label stock with an ultra-removable acrylic adhesive. This material is intended for use as a cleanroom label for the electronics industry. The adhesive has low adhesion and tack and is designed to be cleanly removable without leaving adhesive residue. This high purity adhesive has low out gassing and ionic levels. This label stock is supplied on a PET base liner featuring a reduced silicone release coating.



### Physical Properties

Label Composition	BOPP
Film Thickness	3.0 mil ± 10%
Adhesive Composition	Low outgassing Acrylic-based
Adhesive Thickness	0.9 mil - 1.0 mil ± 0.1
Avg. Peel Adhesive (72 hour dwell)	20 - 25 oz/in
Release Liner	Reduced-silicone coated Polyester
Release Liner Thickness	1.5 mil ± 5%
Release Force	10 - 20 grams
Min. Application Temp.	59°F (15°C)
Service Temp.	23°F to 158°F (-5°C to 70°C)
Storage Stability	Two years stored at 70°F (21°C) and 50% RH
Packaging	Cleaned and double bagged in Class 10 cleanroom. Wound in 3" OR 1" cleaned PE core

### Cleanliness Properties

Extractable Silicone (FTIR) - Adhesive side - Release side	Not Detectable ( $\leq 2.00$ ng/ cm <sup>2</sup> ) $\leq 20.00$ ng/ cm <sup>2</sup>
Total outgassing (GCMS)	$\leq 10,000$ ng/ cm <sup>2</sup>
Ionic Extractable Label (IC) - Total Anion	$\leq 12.0$ µg/cm <sup>2</sup>

### Adhesive Application Guide

Polycarbonate •	ABS •	Cleanroom Paper
Polyester •	Rubber •	Carton Box
Polyethylene •	Glass •	
Polypropylene •	Metal •	