

P4-16300 series

Properties

A matt white topcoated polyimide film with very high dimensional stability, heat and chemical resistance. The high opacity white topcoat is specifically designed for thermal transfer printing and offers excellent scratch, scuff, UV, high temperature and solvent resistance. High performance solvent acrylic adhesive offers excellent heat and chemical resistance. This product was specially developed for labeling printed circuit boards prior to soldering. The construction is designed to withstand reflow processes regardless if the label is on top or bottom of the board. It can also withstand two cycles of reflow processes when surface mounting elements to both sides of the board. The product is also designed to be used in the wave solder process even when directly exposed to the solder bath. The matt topcoat had been formulated to prevent solder balls forming on top of the label.

Table 1. Face stock technical data

Not for specification purposes

Face Stock Technical Data	
Material	Polyimide
Color	White
Appearance	Matt
Caliper	68 µm
Adhesive	Acrylic based

Table 2. Adhesive technical data

Not for specification purposes

Adhesive Technical Data			
Initial Tack	5,75	N/25mm	FTM 9 glass
Peel Adhesion 90°	8,25	N/25mm	FTM 2 steel
Peel Adhesion 180° dwell time 20 minutes	5	N/25mm	FTM 1 epoxy printed circuit board
Peel Adhesion 180° dwell time 24 hours	7	N/25mm	FTM 1 epoxy printed circuit board
Minimal Application Temperature	+10°C		
Service Temperature	-40°C to +280°C		

Table 3. Ribbon technical data

Not for specification purposes

Ribbon technical data	
Type	Resin
Color	Black
Film thickness	4,5 µm
Total ribbon thickness	6,2 µm
Recommended maximum print speed	150 mm/s

Shelf Life

24 months from date of manufacture of product when properly stored at 22°C and 50% relative humidity.

Special Considerations

For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and isopropyl alcohol.

Note

Information presented have been determined by standard test methods and are values not to be used for specification purposes. Our recommendations on the use of our products are based on tests but we would ask for conducting your own tests to determine their suitability for your applications. Citizen cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

Application ideas

PCB PACK
marking of labels applied directly to the printed circuit board utilizing flow or re-flow soldering

Examples

P4-16301
P4-16302