

3M™ Heat Resistive Polyimide Tape 7416Y

Product Description

3M™ Heat Resistive Polyimide Tape 7416Y is designed for masking of lead frames to help prevent mold-flash at the molding process. The high-temperature resistant acrylic adhesive is coated on a polyimide backing.

Key Features

- High initial adhesion and good wettability
- Virtually no residue after high temperature processing

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Base polyimide film: 25μm
Thermally cross-linkable adhesive: 5μm
Silicone treated PET separator: 38μm

Applications

- Lead frame masking tape, resin molding, and other temporary masking applications in high temperature processing

Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Adhesion	Unit	Initial	After 210°C treatment	After reflow process
Copper	N/cm	0.50 (virtually no residue)	0.31 (virtually no residue)	0.35 (virtually no residue)
Glass	N/cm	0.58 (virtually no residue)	0.34 (virtually no residue)	0.32 (virtually no residue)
Glass epoxy	N/cm	0.57 (virtually no residue)	0.32 (virtually no residue)	0.28 (virtually no residue)

Test method:

Sample preparation: Laminated 10mm width sample on each adherent using 2 kg rubber roller, remained at 23 degree C condition for 20~40min.

Test: Peeled in 180-degree direction at 300 mm/min.

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Storage and Shelf Life

The shelf life of 3M™ Heat Resistive Polyimide Tape 7416Y is 12 months from the date of manufacture when stored in the original packaging and stored at 22°C (71°F) and 50% relative humidity.

Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is manufactured and deemed commercially available from 3M. The COA contains the 3M test methods, specifications limits and test results for the product's performance attributes that the product will be supplied against. Contact your local 3M representative for this product's COA.

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