

3M™ Heat Resistive Polyimide Tape 7416Y

Product Description

3M™ Heat Resistive Polyimide Tape 7416Y has been developed for molding processes on tape preventing mold flash. 3M tape 7416Y consists of thermally cross-linkable acrylic copolymer to provide good initial adhesion and to help prevent unexpected adhesion build up even after high temperature processes.

Key Features

- Middle initial adhesion and good wettability
- Less adhesion build-up after high temperature processes
- No/less adhesive residue on molding and metal substrates.

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

Product Construction/Material Description

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

3M™ Heat Resistive Polyimide Tape 7416Y	
Property	Value
Color	Amber
Backing	Polyimide film
Adhesive	Thermally cross-linkable acrylic adhesive
Separator	Silicone treated PET film

Applications

- 3M™ Heat Resistive Polyimide Tape 7416Y is applicable for gold wire bonding, molding processes. And it is also useful for masking, protection and temporary bonding.
 - Before using this product for a specific application, it should be evaluated to determine if it is suitable for the intended use.

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Typical Physical Properties and Performance Characteristics

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3M™ Heat resistive polyimide tape 7416Y		
Property	Test method	Value
Adhesion to Stainless steel	Based on JIS 0237	
23°C / 30 min	Peel angle: 180 degrees	0.7 [N/cm] No residue
After 210°C / 60 min	Peel rate: 300 mm/min	0.3 [N/cm] No residue
After 260°C / 10 min		0.2 [N/cm] No residue
Adhesion to Copper	Based on JIS 0237	
23°C / 30 min	Peel angle: 180 degrees	0.6 [N/cm] No residue
After 210°C / 60 min	Peel rate: 300 mm/min	0.3 [N/cm] No residue
After 260°C / 10 min		0.3 [N/cm] No residue
Adhesion to Glass epoxy	Based on JIS 0237	
23°C / 30 min	Peel angle: 180 degrees	0.6 [N/cm] No residue
After 210°C / 60 min	Peel rate: 300 mm/min	0.4 [N/cm] No residue
After 260°C / 10 min		0.3 [N/cm] No residue

Storage and Shelf Life

The shelf life of 3M™ Heat Resistive Polyimide Tape 7416Y is 14 months from the date of manufacture when stored in the original packaging and stored at 22°C (71°F) and 50% relative humidity.

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Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your 3M representative.

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Electronics Materials Solutions Division
3M Center, Building 224-3N-11
St. Paul, MN 55144-1000
1-800-251-8634 phone
651-778-4244 fax
www.3M.com/electronics

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