

## 3M™ Heat Resistive Polyimide Tape 7418E

### Product Description

3M™ Heat Resistive Polyimide Tape 7418E is a heat resistive polyimide process tape with electrostatic discharge (ESD) properties on the polyimide backing layer. The adhesive is a thermally cross-linkable acrylic copolymer that provides good initial adhesion and has less adhesion build-up even after high temperature processes.

### Key Features

- High initial adhesion and good wettability
- Less adhesion build-up after high temperature processes
- Excellent ESD properties on backside of the tape

### 3M™ Heat Resistive Polyimide Tape 7418E

ESD backside treated polyimide film: 25µm
Thermally cross-linkable adhesive: 22µm
Silicone treated polyester 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 7418E	
Property	Value
Color	Amber
Backing	ESD backside treated polyimide film
Adhesive	Thermally cross-linkable acrylic adhesive
Separator	Silicone treated polyester film

### Applications

- Carrier tape for small parts in high temperature processes, masking, protection, temporary bonding  
\* Before using this product for a specific application, it should be evaluated to determine if it is suitable for the intended use.

## 3M™ Heat Resistant Polyimide Tape 7418E

### 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.

3M™ Heat Resistant Polyimide Tape 7418E		
Property	Method	Value
Adhesion to Steel (SUS304 BA) 23 deg. Celsius /30 min After 260 dc/10 min	Based on JIS 0237 Peel angle: 180 degrees Peel rate: 300 mm/min	1.6 [N/cm] 1.7 [N/cm]
Adhesion to PA9T (Genestar) 23 deg. Celsius /30 min After 260 dc/10 min	Based on JIS 0237 Peel angle: 180 degrees Peel rate: 300 mm/min	0.9 [N/cm] 0.8 [N/cm]
Adhesion to LCP (Laperos) 23 deg. Celsius /30 min After 260 dc/10 min	Based on JIS 0237 Peel angle: 180 degrees Peel rate: 300 mm/min	0.9 [N/cm] 0.4 [N/cm]
Surface resistivity (backside of tape) Initial After 260 dc/10 min	JIS K6911 (ASTM D257) compatible	1x10 <sup>9</sup> [Ω/sq.] 1x10 <sup>9</sup> [Ω/sq.]

### Storage and Shelf Life

The shelf life of 3M™ Heat Resistant Polyimide Tape 7418E 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.

### Certificate of Analysis (COA)

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