

# 3M<sup>™</sup> Heat Resistive Polyimide Tape 7418E

#### **Product Description**

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

## **Storage and Shelf Life**

The shelf life of 3M<sup>™</sup> Heat Resistive Polyimide Tape 7418E is 24 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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Regulatory: For regulatory information about this product, contact your 3M representative.

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