

3M™ Heat Resistive Polyimide Tape 7421

Product Description

3M™ Heat Resistive Polyimide Tape 7421 has been developed for molding processes. 3M tape 7421 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

- Low initial adhesion due to less wettability provides clean surface on molding and metal substrates after tape removal
- Less adhesion build-up after high temperature processes

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Base polyimide film: 25µm
Thermally cross-linkable adhesive: 6µm
Silicone treated PET liner: 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 7421	
Property	Value
Color	Amber
Backing	Polyimide film
Adhesive	Thermally cross-linkable acrylic adhesive
Liner	Silicone treated PET film

Applications

- 3M™ Heat Resistive Polyimide Tape 7421 is applicable for molding processes without adhesive residue on the substrate and molding after tape removal. 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 7421		
Property	Test method	Value
Adhesion to Stainless steel	Based on JIS 0237	
23°C / 30 min	Peel angle: 180 °	0.1 [N/cm] Clean surface after removal
After 210°C / 60 min	Peel rate: 300 mm/min	0.3 [N/cm] Clean surface after removal
After 260°C / 10 min		0.3 [N/cm] Clean surface after removal

Storage and Shelf Life

The shelf life of 3M™ Heat Resistive Polyimide Tape 7421 is 14 months from the date of manufacture when stored in the original packaging and stored under normal room temperature condition in the range of 16°C - 27°C (60°F - 80°F) and 40% - 60% 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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Safety Data Sheet: Consult Safety Data Sheet before use.

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

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