

## Avery Dennison Performance Tapes

# Cable and Insulating Felt & Foam Attachment

### Application overview

Whether used for assembly, mounting, fastening or sealing, bonding tapes such as transfer adhesives and double-sided foams outperform traditional mechanical fasteners and liquid adhesives. Advantages include high bonding strength, ability to withstand high levels of vibration and durable sealing against environmental conditions. These features make them highly qualified in the application and bonding of:

- Attaching cables on moving parts
- Sound insulating felts
- Insulating separate zones / compartments
- Electric insulation

For critical applications, an adhesive with high temperature resistance can be selected.

### Customer benefits

- Easy to apply, without drilling nor damage to the substrate
- Helps reduce concerns for metal corrosion
- No cure time required, ability to handle immediately following tape application
- Compatible with a high variety of substrates



## Technical Properties & Key Application Requirements

### 1. Cable attachment & construction

Cables are wrapped and attached in a wide variety of ways and applications, requiring a variety of tape solutions to consider. For the wrapping of cables a transfer tape can be used for laminating. To attach cables to surfaces a double coated tape with high coat weight and a variety of carrier materials are used, as well as double coated PE foams.

#### Portfolio Overview

	Cable Wrapping	Cable Fixing	Cable Fixation
<b>Features</b>	<ul style="list-style-type: none"> <li>• Transfer tape</li> <li>• Acrylic adhesive</li> <li>• Very high initial tack</li> <li>• Easy unwind</li> </ul>	<ul style="list-style-type: none"> <li>• Double coated</li> <li>• Acrylic adhesive</li> <li>• Different carrier options</li> <li>• Easy to die cut</li> <li>• High coat weight</li> </ul>	<ul style="list-style-type: none"> <li>• Double coated</li> <li>• Closed cell PE foam carrier</li> <li>• Rubber based adhesive</li> <li>• High initial tack</li> <li>• Easy liner removal</li> <li>• Easy to die cut</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Adhesion to difficult shapes</li> <li>• Provides excellent resistance to solvents, chemicals, and plasticizers</li> <li>• Provides excellent resistance to high temperatures</li> <li>• Provides excellent resistance to UV-light</li> </ul>	<ul style="list-style-type: none"> <li>• Provides excellent resistance to solvents, chemicals, and plasticizers</li> <li>• Provides excellent resistance to high temperatures</li> <li>• Provides excellent resistance to UV-light</li> </ul>	<ul style="list-style-type: none"> <li>• Conformable foam enables good lamination on irregular surfaces</li> <li>• Gap Filling</li> <li>• Provides excellent resistance to moisture</li> </ul>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• High adhesion to medium and low surface energy materials</li> </ul>	<ul style="list-style-type: none"> <li>• High adhesion to medium and low surface energy materials</li> </ul>	<ul style="list-style-type: none"> <li>• Low surface energy material bonding requiring a high internal strength</li> <li>• Appliance attachment &amp; construction</li> </ul>
<b>Thickness</b>	80 µm 89 µm 70 µm	200 µm 115 µm 151 µm	1100 µm 1120 µm
<b>Product Codes</b>	FT 2018 FT 125 FT 1270	FT 7368 FT 7770 FT 7250	FM M1750 FM 7600

## 2. Attaching Sound Insulating Felts & Foams

A key element in the performance of appliances is the effectiveness of the applied sound and heat insulation and shielding. We provide an extensive range to match the high variety of these critical applications:

- Acrylic and rubber based soft formulations, perfect for open foam structures.
- Tapes with very high initial tack performance
- Acrylic solutions with the best heat resistance for high temperature applications

### Portfolio Overview

	FT 2018 (acrylic) FT 107 (rubber)	FT 7770 (acrylic) FT Y2202 (rubber) FT B2687 (acrylic) FT 9220 (acrylic)	FL 545 (rubber) FL 546 (acrylic)
<b>Features</b>	<ul style="list-style-type: none"> <li>• Transfer tape</li> <li>• Very high initial tack</li> <li>• Easy unwind</li> </ul>	<ul style="list-style-type: none"> <li>• Double coated</li> <li>• Different carrier options</li> <li>• Easy to die cut</li> <li>• High coat weight</li> <li>• Very high initial tack</li> </ul>	<ul style="list-style-type: none"> <li>• Single coated</li> <li>• Aluminium carrier (thickness 50 µm)</li> <li>• Very high initial tack</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Adhesion to flat or curved surfaces</li> <li>• Provides excellent resistance to solvents, chemicals, and plasticizers</li> <li>• Provides excellent resistance to high temperatures</li> <li>• Provides excellent resistance to UV-light</li> </ul>	<ul style="list-style-type: none"> <li>• Provides excellent resistance to solvents, chemicals, and plasticizers</li> <li>• Provides excellent resistance to high temperatures</li> <li>• Provides excellent resistance to UV-light</li> </ul>	<ul style="list-style-type: none"> <li>• Fire Classification Bs1,d0 according to EN 13501-1:2018</li> <li>• Excellent resistance to moisture and plasticizers</li> </ul>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• High adhesion to medium and low surface energy materials</li> </ul>	<ul style="list-style-type: none"> <li>• High adhesion to medium and low surface energy materials</li> </ul>	<ul style="list-style-type: none"> <li>• Joining, sealing and shielding</li> </ul>
<b>Thickness</b>	80 µm 61 µm	115 µm 117 µm 100 µm 160 µm	100 µm 75 µm

## 3. Electrical Insulation

For safety reasons, tapes that are applied for the electrical insulation of components are specifically developed to suit this need. Depending on the application, you could opt to laminate the foam or foil that is used in the appliance with:

- Flame retardant solutions to make V0 rated materials self adhesive
- Tapes with a very low caloric value, and as such a low burning rate

### Portfolio Overview

	FT 21020 FR	FT 2150
<b>Features</b>	<ul style="list-style-type: none"> <li>• Acrylic adhesive</li> <li>• Flame retardant</li> <li>• Transfer tape</li> <li>• High initial tack</li> </ul>	<ul style="list-style-type: none"> <li>• Acrylic adhesive</li> <li>• Low burning rate</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Provides excellent resistance to high temperatures</li> <li>• Provides excellent resistance to chemicals</li> </ul>	<ul style="list-style-type: none"> <li>• Provides excellent resistance to high temperatures</li> <li>• Provides excellent resistance to chemicals</li> <li>• Provides excellent resistance to UV-light</li> </ul>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• High adhesion to medium to high surface energy materials</li> </ul>	<ul style="list-style-type: none"> <li>• High adhesion to medium to high surface energy materials</li> </ul>
<b>Thickness</b>	50 µm	60 µm

**For more information on our bonding tapes and adhesive solutions, call us:**

North America: +1 866 462 8379

Asia Pacific: +86 512 57155001

Europe: +32 (0)14 40 48 11

[www.tapes.averydennison.com](http://www.tapes.averydennison.com)

08/2021

