

## Avery Dennison Performance Tapes

# Evaporator Plate & Condenser Tube Mounting

### Application overview

The application of pressure sensitive adhesive tapes in the construction of cooling and chilling appliances contributes to the energy efficiency of these appliances.

**Evaporator plates:** Traditional methods with mechanical fasteners create an imperfect seal between the evaporator plate and the fridge housing, leaving gaps into which insulating foam can penetrate and interfere with the cooling system function.

Using Avery Dennison double coated film tapes to attach the full surface of the evaporator plate prevents any polyurethane from escaping during the foaming process and ensures the most efficient operation of the appliance.

**Condenser tubes:** Attaching the heat exchanging condenser tubes with adhesive tapes provides several advantages over the older practice of attachment via metal clamps.

In the production process, tape can be deployed from long rolls and applied with consistent pressure through a continuous, automated process. This translates to a process with increased speed, along with maximum surface contact between the components.

This improved surface contact enforced by the close adhesion improves energy efficiency, as it increases the heat transfer and improves energy efficiency.

Tapes involved in both applications require a high initial tack, a durable bond, and an excellent adhesion to Polystyrene and painted steel.



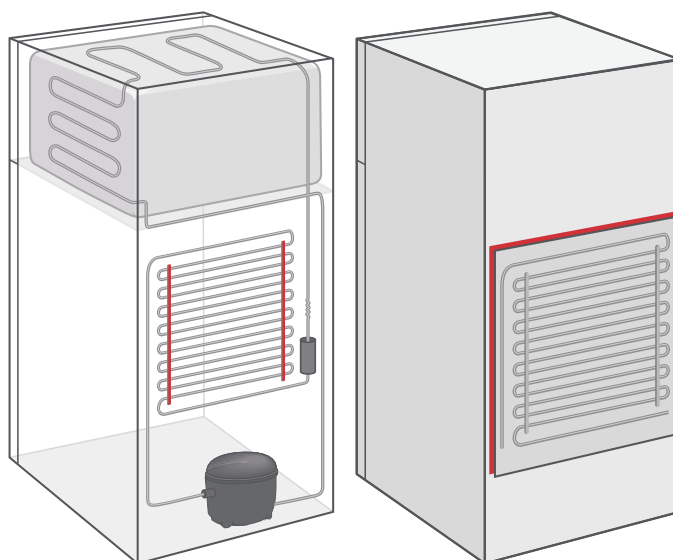
## Technical Properties & Key Application Requirements

### Customer benefits

- Easy to apply, without drilling or damaging the substrate
- No cure time required: ability to handle immediately following tape application
- Optimal surface contact, allowing optimal heat exchange
- Contributing to an efficient foaming process

### Portfolio Overview

<b>Product Codes</b>	FT 349 FT B1200 FT 7420 FT 7423	FT 546
<b>Features</b>	<ul style="list-style-type: none"> <li>• Double coated</li> <li>• Polypropylene film carrier</li> <li>• Rubber adhesive</li> <li>• High coat weight</li> <li>• 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> <li>• Rubber acrylic</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Suitable for uneven surfaces</li> <li>• Excellent resistance to moisture</li> <li>• Suitable for the bonding to flat and embossed surfaces</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>Thickness (excl. liner)</b>	145 µm 150 µm 145 µm 105 µm	75 µm



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

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