

Pressure-Sensitive Adhesives for Pipe Insulation

Building Envelope and Insulation



The role of high-performance tapes in pipe insulation.

There is no single, accepted standard way in which pipes are insulated. Depending on the desired requirements and fire resistance, various insulating materials can be used, ranging from mineral and glass wool to polyurethane, different types of rubber and polyethylene foam. What is consistent, however, is the need for some form of closing solution – something that in many cases is achieved through the use of high performance tapes. Much like insulation, there are various closing systems available that can be used to achieve the desired result depending on the given situation. And they have a significant impact on the fire resistance rating of a pipe insulation. Pipe insulation closure tapes are a type of tape used to seal and secure insulation around pipes. These pressure sensitive adhesives are specifically designed to be compatible with insulation materials and their facing materials, and can help ensure that pipes are properly insulated to prevent heat loss or gain. In addition,



the tape helps to protect the insulation from moisture and dust, while it plays a vital role in the fire behaviour of the construction.



Flame Retardancy

Building requirements for fire safety and complying to rigorous burning tests requires a holistic view to determine the right choice for a closure solution of the pipe insulation. When it comes to the choice of adhesive, there are two routes to explore:

- Using a flame retardant adhesive that will help to prevent or slow down flame development.
- Using a non- flame retardant adhesive designed to keep the seal closed as long as possible and thus protect the insulation from flame exposure. Low adhesive coat weights have a lower calorific value, which reduces the fuel available to a fire load.

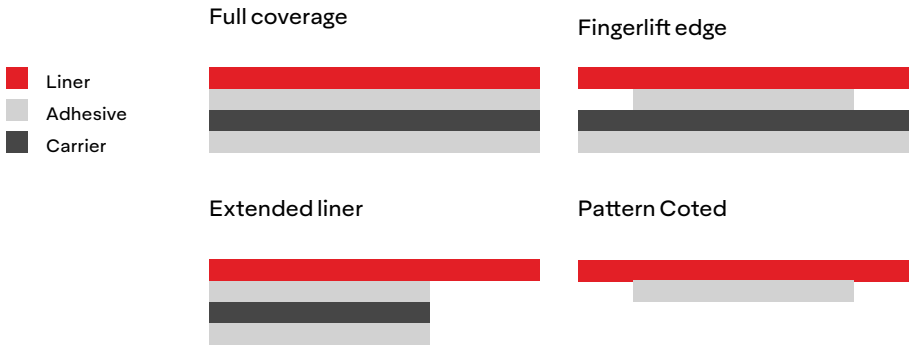
Benefit Summary of using PSA's as a Closure Solution

- Easy to use:
Pressure-sensitive adhesives (PSA's) are easy to apply and require no mixing or additional tools, making them a convenient solution for sealing and closing pipe insulation.
- Versatility:
PSA's can be used on a variety of surfaces and materials with high to very low surface energy properties, including fiberglass, foam, aluminum foil and polyethylene-coated aluminum foil.
- Quick bonding:
PSA's bond quickly and securely to the surface they are applied to, which can help speed up installation times.
- Resistant to environmental factors:
Many PSA's are designed to be resistant to a range of environmental factors, including temperature changes, moisture, and UV light. This makes them a durable and reliable solution for sealing pipe insulation in harsh or demanding environments.
- Minimal clean-up:
Unlike other closure solutions that may require additional materials or clean-up, PSA's are clean and easy to work with, reducing the amount of waste and mess.

Product Range Details

Code	FT 73320	FT 7961	FT7392	FT 21120FR	FL 545
Construction	Double coated	Double coated scrim	Double coated	Transfer tape	Single coated
Liner	White glassine	Havana glassine	White glassine	Havana glassine	Brown glassine
Adhesive 1	Synthetic rubber	Acrylic	UV cured acrylic	Flame retardant acrylic	Synthetic rubber
Carrier	12µ PET	PET scrim	12µ PET	N/A	50µ Alu (gloss)
Adhesive 2	Synthetic rubber	Acrylic	Synthetic rubber	N/A	N/A
Fire Classification					B-s1,d0

Available finish options



Our technical experts are here to show you how to work with your materials successfully during every phase of your application. You can count on us to approach any challenge with genuine curiosity and care.

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