

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 compliance with rigorous burning tests require a holistic view to determine the right closure solution for pipe insulation. Fire safety performance is assessed at the level of the full construction, not individual components in isolation. This means achieving the required flame retardancy classification does not depend on FR additives in the adhesive itself. Our tapes are designed to keep the seal closed for as long as possible, shielding the insulation from direct flame exposure. Combined with low adhesive coat weights, which reduce calorific value and limit the fuel available to a fire, this approach delivers reliable fire performance across a range of insulation constructions.

Benefit summary of using pressure-sensitive adhesives (PSA's) as a closure solution

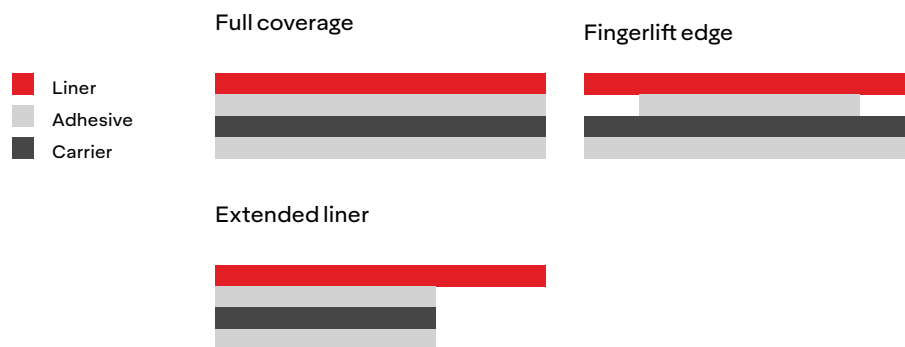
- Easy to use:
PSA's are easy to apply and require no mixing or additional tools, making them a convenient solution for sealing and closing pipe insulation.
- Versatility:
PSA's bond reliably across a wide range of substrates, including challenging low surface energy materials such as polyethylene-coated aluminum foil and foam, where many other adhesives fall short. This makes them suitable for virtually any insulation facing material.
- Consistent, factory-applied performance:
When tape is applied during manufacturing, every unit leaves the line with an identical adhesive coat weight and bond quality. This eliminates on-site variables, resulting in more predictable performance, easier specification and faster installation.
- 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	FT 7392
Construction	Double coated	Double coated scrim	Double coated
Liner	White glassine	Havana glassine	White glassine
Adhesive 1	Synthetic rubber	Acrylic	UV cured acrylic
Carrier	12µ PET	PET scrim	12µ PET
Adhesive 2	Synthetic rubber	Acrylic	Synthetic rubber
Suitable for low surface energy surfaces	✓	-	-
Temperature resistance	-40°C - 60 °C	-40°C - 120°C	-40°C - 90°C
Capable of meeting EN 13501 fire testing requirements in pipe insulation shells	✓	✓	✓

* Also available with liner containing recycled content.

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.

Contact your Avery Dennison sales representative or visit tapes.averydennison.com

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