

Technical Datasheet

EPDM TAPE

EPDM Acrylic Tape



PRODUCT DESCRIPTION

EPDM TAPE is a high-performance airtight sealing tape engineered for joint sealing of architectural windows, doors and curtain walls, based on EPDM and acrylic modification technology. It adopts a three-layer composite structure: EPDM rubber as the sealing substrate, coated with solvent-free acrylic pressure-sensitive adhesive, and laminated with a PE double-sided silicone release liner. Combining high bonding strength, long-term weather resistance and excellent joint movement compensation capability, it also delivers stable water vapor diffusion barrier performance, effectively blocking air infiltration and moisture ingress to ensure long-lasting sealing reliability and airtightness of building connection joints.

This product is suitable for sealing operations on both the internal and external sides of window, door and curtain wall joints. On the external side, it serves as the primary outer sealing barrier, withstands outdoor high-low temperature cycling, UV aging and rainwater scouring, resists external moisture ingress, and accommodates structural displacement and deformation of the building. On the internal side, it acts as an inner airtight vapor barrier, blocks air infiltration paths, prevents indoor water vapor from diffusing into the building envelope, and forms a complete sealing system in conjunction with the external seal.

PRODUCT APPLICATIONS

EPDM TAPE is widely compatible with metal components and various window, door and curtain wall structural systems, and caters to diverse construction scenarios, including perimeter closed-loop sealing of door openings and floor-to-ceiling windows, as well as dedicated sealing of bottom joints.



Use EPDM TAPE to perform sealing treatment at the bottom joints of floor to ceiling terrace windows.



Use EPDM TAPE for perimeter closed-loop sealing of window openings.

PRODUCT ADVANTAGES

- Prevent water vapour diffusion and heat loss.
- Delivers long-lasting waterproof sealing performance.
- Features high elasticity to compensate for joint movement.
- Features excellent extreme temperature resistance and long-term weather resistance.
- The pressure-sensitive adhesive features outstanding ageing resistance, resistance to water whitening, superior adhesion and low-temperature applicability, enabling sound compatibility and durable bonding with all common construction substrates.
- German GEV issued EC1 environmental certification.
- Certified to ISO 9001, ISO 14001 and ISO 45001.

TECHNICAL DATA

I. Typical Values

No.	Properties	Test Method	Typical Values
1	Total thickness (without release liner), mm	EN 1849-2	1.11
2	Substrate thickness, mm	EN 1849-2	0.91
3	Adhesive weight, g/m ²	EN 1849-2	200
4	Tear strength (right angle), kN/m	ISO 34-1	27
5	Tensile strength (dumbbell), MPa	ISO 37	9.8
6	Break elongation (dumbbell), %	ISO 37	840
7	S _d value, m	ASTM E96 (Method B)	200

No.	Properties	Test Method	Typical Values
8	180°peel strength of mirror steel plate, N/m	ISO 29862	23℃ 400
			-10℃ 320
9	weathering aging, %	ISO 4665	Tensile strength retention rate 85
			Elongation at break retention rate 75

II.Other Technical Description

1	Material	Polymer composite material
2	Colour	Black
3	Compatibility with others	Suitable for common construction materials including various waterproof membranes, rigid plastics, metals, smooth solid wood and engineered wood panels.
4	Ageing resistance	High and lasting adhesive strength. It contains no raw rubber, resin or solvent, and has the properties of anti-drying and anti-embrittlement. It can reliably absorb structural movements for a long time.
5	Water whitening resistance	In contact with water or in a humid environment, the adhesive film can effectively resist the penetration of water molecules, maintain a transparent and uniform state for a long time, and show no obvious whitening or swelling phenomena.
6	Temperature resistance	-40℃~+90℃
7	Application temperature	Above -10℃
8	Storage temperature	0℃~+30℃
9	Storage life	The debris can be treated as general household waste without special treatment.
10	Safety and health tips	Though according to the relevant industry regulations, it is not a dangerous substance, it is not recommended to directly stick it to any part of the body besides the fingers.

PREPARATION AND PROCESSING

Prior to formal installation, it is recommended that the customer conduct a verification test first to ensure the product is fully compatible with the specific application environment. Taking the bottom sealing of floor-to-ceiling windows on the external side as an example, the general construction procedures are as follows for reference only.

- Clean the surface of the wall substrate before construction to ensure the base surface is free of loose dust and debris; a vacuum cleaner can be used for cleaning. Select EPDM TAPE which can be used with a special primer to improve bonding performance with the substrate.
- Shake the primer thoroughly before use, and spray it evenly onto the construction base surface as required. The spraying range shall extend beyond the EPDM overlap area. Allow 15–60 seconds for the primer to fully activate.
- Cut the EPDM tape to the actual size of the opening. The release liner on the back of the EPDM tape is divided into three sections; peel off the release liner in stages, and do not touch the exposed adhesive surface. First complete partial positioning and bonding: fold the EPDM tape over the bottom edge of the window frame, and fit it to both the outer surface of the window frame bottom edge and the window sill structure. Prioritize treatment of uneven or deformed areas on the wall. Peel off the remaining release liner section by section while pressing and

- compacting the tape simultaneously to ensure full contact between the EPDM tape and the activated primer.
- The tape shall form an effective overlap with the insulation base structure to achieve joint sealing. After the entire installation is completed, use a pressure roller or pressing tool to firmly roll over the bonded surfaces and the joints with sealant, to eliminate interfacial voids and ensure compact bonding.
 - Rainwater can drain outward along the surface of the EPDM tape, preventing moisture from penetrating into the building interior through gaps in the joint filling foam. This process is applicable to floor-to-ceiling terrace windows, i.e. tall windows extending all the way to the floor.

DIMENSIONS AND PACKAGING

The following are standard specifications. Customization of product width and length is available to meet client requirements. For further information, please consult our team.

Product Name	Width	Length / Roll	Rolls / Carton
EPDM TAPE	60 mm	25 m	10
	100 mm	25 m	4
	200 mm	25 m	2

The information provided in this document corresponds to the information and technical details available to the best of our knowledge. However, this does not constitute a guarantee pursuant to laws and regulations of the areas where the products are used. Our processing instructions are to be considered only as general guidelines and may differ in the individual case due to the range of possible uses and applications. They do not therefore automatically exempt the user from carrying out their own tests. We reserve the right to make technical modifications and enhancements at any time.