

Polyethylene Adhesive Tape

Polyethylene adhesive tape is an anti-corrosion material made by combining a polyethylene substrate with an adhesive layer. The substrate is typically a calendered, roughened film made from high- or low-density synthetic polyethylene. The adhesive layer uses a butyl rubber-modified asphalt anti-corrosion adhesive.

It is primarily categorized into anti-corrosion tape (inner tape), protective tape (outer tape), joint wrapping tape, and a series of matching primers. The thickness range is between 0.40 mm and 2.00 mm, and the applicable temperature range is generally from -34°C to +75°C.

This material features excellent adhesive sealing properties, UV resistance, high tensile strength, and aging resistance. It is widely used for external anti-corrosion on steel pipelines in petroleum, natural gas, and urban gas distribution networks. It is also suitable for external surface anti-corrosion of buried metal pipelines in chemical, water supply and drainage, and gas transmission applications.



PRODUCT SPECIFICATIONS

No.	Item	Performance Indicator
1	Thickness	Conforms to manufacturer's specification, deviation $\leq \pm 5\%$
2	Tensile Strength of Backing Film	$\geq 18\text{MPa}$
3	Elongation Break of Backing Film	$\geq 200\%$
4	Peel Strength(N/cm)	To primed steel: ≥ 20 To backing material(without release liner): ≥ 5 To backing material(with release liner): ≥ 20
5	Electric Strength	$\geq 30\text{MV/m}$
6	Volume Resistivity	-
7	Heat Aging Resistance(2400h)	Property retention rate $\geq 75\%$
8.	Water Absorption	$\leq 0.2\%$
9	Water Vapor Transmission Rate	$\leq 0.45\text{mg}/(24\text{h}.\text{cm}^2)$
10	UV Aging Resistance(600h)	Property retention rate $\geq 80\%$