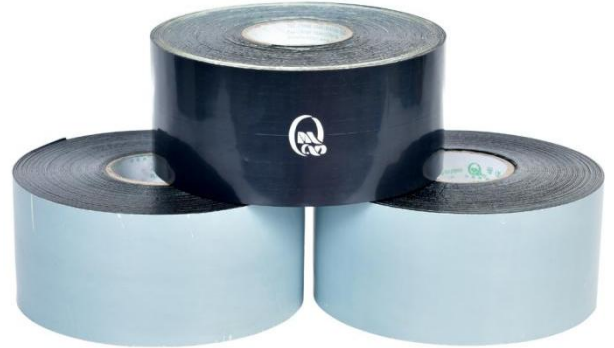


# Polyethylene Seam Tape

## Anti-corrosion Protective Coating



### Features



Thick adhesive



Anti-anodic stripping



Temperature resistance is optional



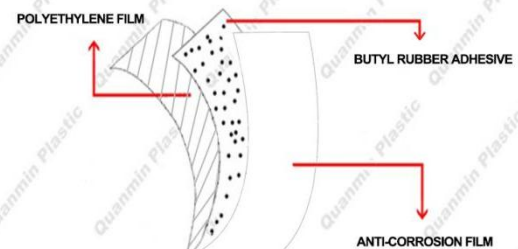
Strong stress resistance

Our Polyethylene Seam Tape is a cold-applied tape designed for on-site anti-corrosion protection of circumferential welds on installed underground pipelines. It is composed of butyl rubber and polyethylene film, with an additional layer of anti-corrosion film. The tape is also highly adaptable and can be easily applied to elbows, fittings, and other complex shapes.

### Description

Due to the combination of polyethylene film and butyl rubber adhesive, our Polyethylene Seam Tape inherently possesses high anti-corrosion performance and excels in both chemical and electrolytic corrosion resistance. It is also resistant to ultraviolet rays and can withstand normal sunlight exposure. Additionally, it is user-friendly for ground applications. To enhance the adhesion of the coating system to the working surface, we recommend using a primer with a higher solid content.

The product fully complies with AWWA and EN standards.



### Storage and Shelf Life

This product should be stored in a dry and ventilated place, and the same environment must be maintained during transportation. The storage temperature range should be no lower than  $-40^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$ ) and no higher than  $+40^{\circ}\text{C}$  ( $+104^{\circ}\text{F}$ ). Humidity should not exceed 90%. Vertical stacking height  $\leq 5$  layers. The shelf life is 12 months (reinspection is required after expiration).

Type	T 3089-35	T 3102-40	T 3127-50	Test Method
Total Thickness	0.889mm (35mils)	1.018mm (40mils)	1.270mm (50mils)	ASTM D 1000
Polyethylene Film	0.165mm (6.5mils)	0.254mm (10mils)	0.254mm (10mils)	ASTM D 1000
Butyl Rubber Adhesive	0.724mm (28.5mils)	0.762mm (30mils)	1.016mm (40mils)	ASTM D 1000
Elongation at Break @23°C (73.4°F)	150%	225%	300%	ASTM D 1000
Tensile Strength @23°C (73.4°F)	26.5N/cm (15lbs/in)	30N/cm (35lbs/in)	44N/cm (25lbs/in)	ASTM D 1000
Peel Adhesion to Primed Pipe @23°C (73.4°F)	16N/cm (146oz/in)	25N/cm (228/in)	33N/cm (301oz/in)	ASTM D 1000
Adhesion to Backing at @23°C (73.4°F)	10N/cm (91.4oz/in)	17N/cm (155oz/in)	22N/cm (201oz/in)	ASTM D 1000
Cathodic Disbondment @23°C (73.4°F)	≤6.0mm (0.25in radius)			ASTM G 8
Volume Resistivity	≥2.5 X 10 <sup>16</sup> ohm.m@23°C (73.4°F)			ASTM D 257
Water Vapor Transmission	≤0.25g/m <sup>2</sup> .24h (0.016g/100sqin.24h) @23°C (73.4°F)			ASTM E 398
Water Absorption Rate	<0.05% 24h@23°C (73.4°F)			ASTM D 570
Dielectric Strength	≥22.0KV			ASTM D 149
Impact Resistance	≥10J (88.5in.lbf)			EN 12068
Application Temperature	-34°C to +80°C (-29°F to 176°F)			
Max Serve Temperature	+85°C (185°F)			
Diameter of Inner Core	41 or 76mm (1.614 or 2.992in)			
Available Roll Size (width * length)	50 to 600mm X 10 to 20m (1.97 to 23.62in X 32.81 to 25.62ft), Customizable.			
Color	White, Black			

## General Requirements for Applications

General: The area to be coated has to be cleandry, and free from oil, grease and dust. All contamination including mill-scale has to be removed.

Degreasing: Degrease surfaces with Toluene or Heptane and e.g. a lint-free cloth.

Preventing Condensation of Water: Before and during construction, the working surface temperature must always remain at least 3°C (37.4°F) above the dew point temperature.

Working Surface Temperature: The surface temperature of the operation should be maintained between +20°C and +40°C (68°F to 104°F) and preheating should be performed if necessary.

The concave areas of the circumferential weld and the convex and concave areas of the components should be corrected with butyl rubber filler or butyl rubber filling tape.

## Application Instruction

### Step 1

Clean substrate to SSPC-SP6/NACE3 or SA 2 (Commercial Blast) with a 25–76µm (1–3 mils) anchor profile.

### Step 2

The primer is evenly coated to achieve a wet film thickness of 50.8 to 76.2 microns (2 to 3 mils). The Polyethylene Seam Tape should be applied after the primer has reached a "surface dry" state.

### Step 3

The overlapping width is ensured to meet the design requirements by spiral winding of Polyethylene Seam Tape and is not less than 25.4mm (1 inch).

### Step 4

Perform holiday detection per NACE SP0274 Handling and commissioning.

## Friendly Reminder

The backfill should be kept clean and should not contain any foreign matter that could damage the coating system.

**For more technical inquiries, please visit our website.**

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