

Outer Wrap PVC Tape

Mechanical Protective Coating

Features



Cold application



Excellent formability



No drying or curing time required



High impact resistance



Adaptable to pipes of varying diameters



Can be applied over a wide temperature range



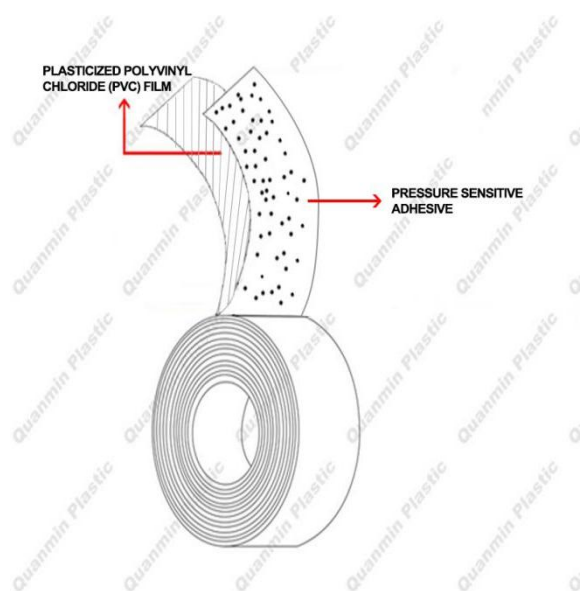
This tape consists of a plasticized polyvinyl chloride (PVC) film coated on one side with a rubber resin, and pressure sensitive adhesive. It is designed to enhance the mechanical protection of anti-corrosion coatings applied to the exterior surfaces.

Our Outer Wrap PVC Tape is made from a durable polyvinyl chloride film and a specially formulated high-adhesion adhesive. It serves as an outer wrapping material for flexible-coated pipelines and components, offering excellent water and oxygen barrier properties, as well as resistance to soil stress.

Description

Outer Wrap PVC Tape finds applications in premium industries such as the petroleum and natural gas sectors. It provides mechanical protection for the anti-corrosion coatings of pipeline weld joints, fittings, and bends. It acts as an outer wrapping for flexible anti-corrosion materials, including petrolatum (vaseline) tapes, asphalt tapes, and viscoelastic tapes. With its outstanding adhesion and shear resistance, it is well-suited for use under a wide range of temperatures, both high and low.

This tape effectively resists corrosive elements such as salt, acids, alkalis, common chemicals, and chemical vapors. It also withstands exposure to outdoor weathering and sunlight. As a result, it delivers long-term mechanical protection for both repair and new construction projects involving aboveground and underground pipelines and components.



| Project | T 5030-12 | T 5050-20 | Test Method |
|--------------------------------------|---|-----------------------|----------------------|
| Total Thickness | 0.30mm (11.81mils) | 0.50mm (19.69mils) | ASTM D1000 |
| Polyvinyl Chloride Film Thickness | 0.20mm (7.87mils) | 0.40mm (15.75mils) | ASTM D1000 |
| Adhesive Layer Thickness | 0.10mm (3.94mils) | 0.14mm (5.51mils) | ASTM D1000 |
| Elongation at Break @23°C (73.4°F) | 230% | 200% | ASTM D1000 |
| Tensile Strength @23°C (73.4°F) | 30.9N/cm (17.6lbs/in) | 43.5N/cm (24.8lbs/in) | ASTM D1000 |
| Adhesion to Steei | at 12°C (54°F) | 5.30N/cm (38.4oz/in) | 6.50N/cm (59.4oz/in) |
| | at 23°C (73.4°F) | 4.50N/cm (41.1oz/in) | 5.30N/cm (38.4oz/in) |
| | at 70°C (158°F) | 0.43N/cm (3.9oz/in) | 0.50N/cm (4.6oz/in) |
| Peel strength of PE/PVC | at 12°C (54°F) | 5.00N/cm (45.7oz/in) | 6.30N/cm (57.6oz/in) |
| | at 23°C (74.4°F) | 4.00N/cm (36.5oz/in) | 5.30N/cm (48.4oz/in) |
| | at 70°C (158°F) | 0.42N/cm (3.8oz/in) | 0.55N/cm (5.2oz/in) |
| Impact Strength | 14 J (123.91in.lbf) | 16 J (141.61in.lbf) | ASTM G14 |
| Dielectric Strength | 20kv | 25kv | ASTM D149 |
| Water Vapor Transmission Rate | 0.15g/m ² /24h.@23°C (73.4°F) | | ASTM E96 |
| Water Absorption Rate | 0.08% 24h.@23°C (73.4°F) | | ASTM D570 |
| Normal Application | -12 °C to +70°C (+10°F to 158°F) | | |
| Normal Service | -48°C to 85°C (-55°F to 185°F) | | |
| Service Temperature | 70°C (158°F) | | |
| Diameter of Inner Core | 41 or 76mm (1.614 or 2.992in) | | |
| Available Roll Size (width X length) | 50 to 400mm X 15 to 120m (1.97 to 15.75in X 49.21 to 399.7ft) | | |
| Color | Black/White/Blue | | |

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 16°C (60°F) and no higher than 49°C (120°F). Humidity should not exceed 90%. Vertical stacking height ≤5 layers. Shelf life 12 months.

General Requirements for Applications

General Requirements : The area to be coated must remain clean and dry, free from grease, oil stains, and dust.

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.

Inspect the surface before application: Perform remedial treatment on any defects present on the work surface.

Application Instruction

Step 1

Construction shall be carried out using the spiral winding method.

The polyvinyl chloride outer wrapping should be tensioned with a typical overlap of 50%. A minimum overlap of 25 mm (1 inch) is required, and the initial and termination windings shall be straight circumferential wraps.

Throughout the application process, sufficient tension must be applied to ensure continuous bonding of the tape.

Step 2

Perform holiday detection per NACE SP0274 Handling and commissioning.

Friendly Reminder

1. The entire coating system's object must not bear external force loads from supports or lifting equipment, etc. Unbonded Outerwrap materials can be selected for enhanced protection, such as: Non-woven polypropylene blanket, Non-woven polypropylene blanket, etc.
2. 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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