

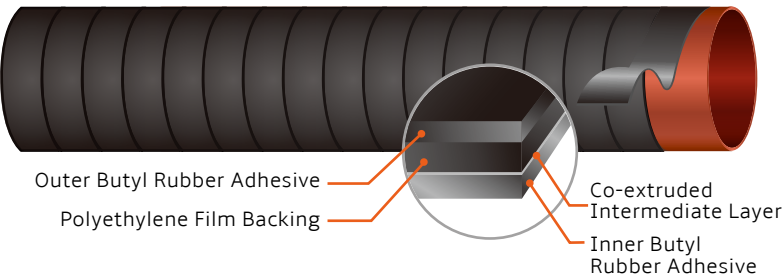
3-PLY POLYETHYLENE (PE) CORROSION-RESISTANT TAPE

PRODUCT DATA SHEET

3-PLY POLYETHYLENE (PE) CORROSION-RESISTANT TAPE

YUXI’s co-extruded three-ply polyethylene (PE) tape serves as a robust coating system for corrosion and mechanical protection of pipelines and for facilitating coating repairs. Regarded as an inner tape, this cold applied tape is designed for application between a liquid adhesive and an outer tape, it can be manually wrapped or processed with wrapping machines.

Our protective tape is made from a stabilized polyethylene carrier film and butyl rubber adhesive layers on both sides. The inner butyl rubber adhesive layer fuses with the outer layer to form a leak-proof wrap sleeve which is effectively impermeable to water vapor and oxygen while also being resistant to soil bacteria and electrolytes.



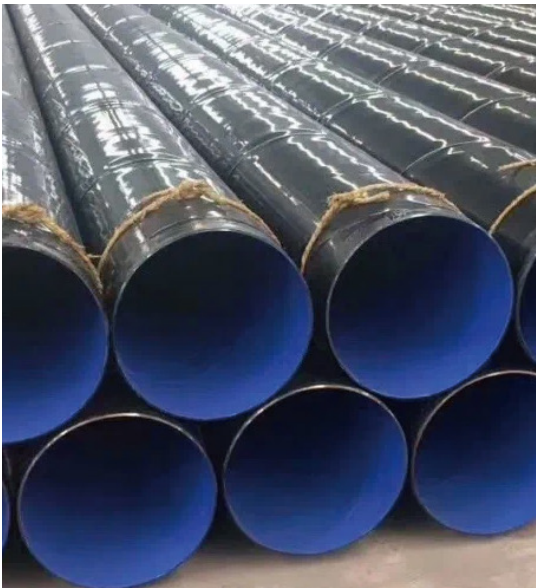
Polyethylene Film Backing Thickness	Inner Adhesive Thickness	Outer Adhesive Thickness	Tape Thickness
0.254 mm (10 mils)	0.254 mm (10 mils)	0.254 mm (10 mils)	0.76 mm (30 mils)
0.305 mm (12 mils)	0.256mm (14 mils)	0.152 mm (6 mils)	0.81 mm (32 mils)
0.26 mm (10 mils)	0.5 mm (20 mils)	0.25 mm (10 mils)	1 mm (40 mils)
0.19 mm (7.5 mils)	0.5 mm (20 mils)	0.41 mm (16 mils)	1.1 mm (43.5 mils)

FEATURES

- High bond strength
- Long-lasting corrosion protection
- Strong electrically insulating
- High flexibility and adaptability
- Excellent shear strength even at maximum operating temperature
- Compatible with factory coatings made of PE, PP, FBE, PU, CTE and bitumen

PRACTICAL APPLICATION

Our 3-ply polyethylene tape serves as a solution for preventing corrosion on pipes and weld seams. Additionally, it is utilized for the insulation and re-insulation of pipelines transporting oil, water, and gas.



3-PLY POLYETHYLENE (PE) CORROSION-RESISTANT TAPE

PHYSICAL PROPERTIES

Technical Measurement		Test Method	Performance			
Total Thickness		ASTM D1000	0.76 mm (30 mils)	0.81 mm (32 mils)	1 mm (40 mils)	1.1 mm (43.5 mils)
Tensile Strength		DIN 30672/1	64.5 N/cm (36.3 lbs/in)	72 N/cm (41.2 lbs/in)	71 N/cm (40.5 lbs/in)	70 N/cm (40 lbs/in)
Elongation at Break		DIN 30672/1	610%	500%	550%	530%
Impact Resistance		DIN 30672/1	15.3 N·m (15.3 J)	15.5 N·m (15.5 J)	15.3 N·m (15.3 J)	15.5 N·m (15.5 J)
Shear Resistance		DIN 30672/1	0.054 N/mm ² (125 oz/in ²)	0.06 N/mm ² (139 oz/in ²)	0.06 N/mm ² (139 oz/in ²)	0.06 N/mm ² (139 oz/in ²)
Peel Strength (to Primed Steel)	at 23 °C	DIN 30672/1	18 N/cm (165 oz/in)	20 N/cm (183 oz/in)	28 N/cm (256 oz/in)	28 N/cm (256 oz/in)
	at 50 °C		2.4 N/cm (22 oz/in)	2.7 N/cm (25 oz/in)	3.7 N/cm (33.8 oz/in)	3.7 N/cm (33.8 oz/in)
Peel Strength (Outer to Inner)	at 23 °C	DIN 30672/1	36 N/cm (329 oz/in)	45 N/cm (411 oz/in)	50 N/cm (457 oz/in)	55 N/cm (503 oz/in)
	at 50 °C		4.8 N/cm (44 oz/in)	6 N/cm (55 oz/in)	6.6 N/cm (60.3 oz/in)	8.5 N/cm (77.7 oz/in)
Water Vapor Transmission Rate (24h)		ASTM E 96	0.13 g/ m ² (0.083 g/100 in ²)	0.075 g/ m ² (0.005 g/100 in ²)	0.075 g/ m ² (0.005 g/100 in ²)	0.075 g/ m ² (0.005 g/100 in ²)
Water Absorptivity		ASTM D570	0.06%	0.05%	0.05%	0.05%
Application Temperature		/	-34 °C ~ 85 °C (-29 °F ~ 185 °F)			
Service Temperature		/	85 °C (185 °F)			

ELECTRICAL PROPERTIES

Technical Measurement	Test Method	Performance			
Tape Thickness	ASTM D1000	0.76 mm (30 mils)	0.81 mm (32 mils)	1 mm (40 mils)	1.1 mm (43.5 mils)
Dielectric Strength	ASTM D1000	41 kV/mm (1041 V/mil)	43 kV/mm (1092 V/mil)	43 kV/mm (1092 V/mil)	45 kV/mm (1143 V/mil)
Insulation Resistance	ASTM D257	10 ⁸ MΩ	10 ¹⁰ MΩ	10 ¹² MΩ	10 ¹⁴ MΩ



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SPECIFICATION

Item No.	Tape Thickness	Width	Length
YX-DPET-30/2	0.76 mm (30 mils)	50 mm (2")	30/50/100 m (98/164/328 ft.)
YX- DPET-30/4	0.76 mm (30 mils)	100 mm (4")	30/50/100 m (98/164/328 ft.)
YX-DPET-30/6	0.76mm (30 mils)	150 mm (6")	30/50/100 m (98/164/328 ft.)
YX-DPET-32/2	0.81 mm (32 mils)	50 mm (2")	30/50/100 m (98/164/328 ft.)
YX-DPET-32/4	0.81 mm (32 mils)	100 mm (4")	30/50/100 m (98/164/328 ft.)
YX-DPET-32/6	0.81 mm (32 mils)	150 mm (6")	30/50/100 m (98/164/328 ft.)
YX-DPET-40/2	1 mm (40 mils)	50 mm (2")	30/50/100 m (98/164/328 ft.)
YX-DPET-40/4	1 mm (40 mils)	100 mm (4")	30/50/100 m (98/164/328 ft.)
YX-DPET-40/6	1 mm (40 mils)	150 mm (6")	30/50/100 m (98/164/328 ft.)
YX-DPET-43.5/2	1.1 mm (43.5 mils)	50 mm (2")	30/50/100 m (98/164/328 ft.)
YX-DPET-43.5/4	1.1 mm (43.5 mils)	100 mm (4")	30/50/100 m (98/164/328 ft.)
YX-DPET-43.5/6	1.1 mm (43.5 mils)	150 mm (6")	30/50/100 m (98/164/328 ft.)

Note: All dimensions shown above are nominal. The information provided is subject to change without notice.





Industrial Corrosion Control Solutions Provider

Established in 2003, YUXI has over a 20-year heritage of innovation in corrosion control science and technology. We're a spirited team of ambitious thinkers and pioneer sheep with a common goal in mind: protect our clients' assets from corrosion with cost-saving measures.

We have the most comprehensive catalog of cathodic protection materials including anodes, transformer rectifiers, backfills, coatings, etc. Our anodes and supplies are manufactured to strict quality standards through an ISO 9001 quality management system and are guaranteed to offer excellent performance in the industry.



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