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The Engineer's Choice

... for Solutions

UPS TR1 Inner Tape is a cold applied tape coating system for corrosion protection or Oil, Gas, Petrochemical and Waste Water, both underground and overhead pipelines. The Inner Layer Tape shall be applied after the UPS TR7 & TR9 Tape Primer has been applied and before the application of UPS TR2 Outer Tape. The UPS TR1 Inner Tape can be applied by hand or wrapping machine.

The specification of the tape consists of two layers, adhesive layer and film backing.

Adhesive: Butyl Rubber

Film Backing: Special blend of stabilized polyethylene

Features

- Excellent adhesion to pipe and self
- Can be applied over a wide temperature range
- Good conformability and consistent uniform thickness
- Easily applied with no special equipment
- Compatible with common pipe coatings
- Excellent resistance to cathodic disbonding
- Meets ASTM D 1000 Standard
- Cold applied

Item	TR1-50	TR1-65	TR1-80	Test Method
Total Thickness	0.51mm	0.65mm	0.80mm	ASTM D 1000
Polyethylene Film	0.31mm	0.34mm	0.39mm	ASTM D 1000
Synthetic Adhesive	0.20mm	0.31mm	0.41mm	ASTM D 1000
Elongation at Break		≥ 400%		ASTM D 1000
Tensile Strength	55 N/cm	60 N/cm	63 N/cm	ASTM D 1000
Yield Strength	35.5 N/cm	42.3 N/cm	45.5 N/cm	ASTM D 1000
Peel Adhesion to Primed Pipe	25 N/cm	30 N/cm	33 N/cm	ASTM D 1000
Dielectric Strength	35 KV/mm	45.8 KV/mm	48 KV/mm	ASTM D 149
Cathodic Disbondment		0.24 in radius 6.4mm		ASTM D G8
Volume Resistivity		2.5 x 10 ¹² ohm.m		ASTM D 257
Water Vapour Transmission Rate		≤ 0.1gm/M ² /24hr		ASTM F 1249
Water Absorption Rate		< 0.10%		ASTM D 570
Recommended Application Temperature		-5°C to 60°C (23°F to 140°F)		-
Max Serve temperature		-40°C to 85°C (-40°F to 185°F)		-
Colour		Black, Yellow or Other		-

Packaging

UPS TR1 Inner Tape is supplied in the following;

- 0.38mm
- 0.5mm
- 0.65mm
- 0.8mm

Health And Safety

As long as normal good practice is observed UPS TR1 Inner Tape can be safely used. Protective gloves should be worn during use.

A fully detailed Material Safety Data Sheet is either included with the material or is available on request.

The information provided in this Technical Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of Unique Polymer Systems LTD. Users should determine the suitability of the product for their own particular purposes by their own tests.

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