



## Polyethylene Heat Shrinkable Tapes

Polyethylene Heat Shrinkable Tape is a wrap around radiation cross linked tape designed for corrosion protection of straight pipes, fittings, bends, elbows and other irregular configurations. When heated the backing layer shrinks and the adhesive flows and forms a reliable corrosion protection seal onto metal and adjacent coating surfaces.

The epoxy primer should applied to the prepared pipe surface then heat shrinkable tape is immediately wrapped around the joint over the wet epoxy. Then center the closure patch on the overlap region.

### STRUCTURE

The tape consists of three layers, primer layer, adhesive layer, film backing.

Primer: Liquid epoxy, solvent free two component.

Adhesive: High shear strength copolymer adhesive

Film backing: Radiation cross linked. High density polyethylene

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- ▶ Excellent resistance to cathodic disbondment
- ▶ Long term corrosion protection
- ▶ Non hardening and non cracking
- ▶ Fast application and high performance
- ▶ Excellent chemical resistance
- ▶ Excellent resistance to shear forces
- ▶ Mechanical protection and moisture resistance

## SPECIFICATIONS

### Backing

Property	Test Method	Typical Value
Tensile Strength	ASTM D-638	20MPa (2900 psi)
Elongation at Break	ASTM D-638	550%
Specific Gravity	ASTM D-792	0.95
Hardness, Shore D	ASTM D-2240	48
Dielectric Strength	ASTM D-149	20kv/mm
Water Absorption	ASTM D-570	0.05%
Shrink Force	ASTM D-638	240KPA (35psi)
Volume Resistivity	ASTMD-257	1.0x10 <sup>16</sup> ohm.cm

### Adhesive

Property	Test Method	Typical Value
Softening Point	ASTM E-28	85°C
Lap Shear	ASTM D-1002	40psi

### Heat Shrinkable Tape

Property	Test Method	Typical Value
Peel to Steel	ASTM D-4541	35N/cm
Low Temperature Flexibility	ASTM D-2671	-20°C
Cathodic Disbondment	ASTM G8, 30days, @23°C	10mmradius
Impact Resistance	DIN EN 12068	Pass
Indentation Resistance	DIN EN 12068	Pass
Dielectric Breakdown	ASTM D-149	35kv
Tape Thickness	2.0mm, 2.2mm, 2.5mm, 2.9mm or others	
Tape Width	450mm, 600mm, 900mm or others	