

Anticorrosion Division

Heat Shrinkable Mantles



PXHE 60

Polypipe Global Protection System International

DESCRIPTION:

THREE-LAYER HEAT SHRINKABLE MANTLE COMPOSED OF A POLYOLEFIN BACKING CROSS-TICULATED BY ELECTRONIC MEANS WITH ELASTIC MEMORY, A HIGH RESISTANCE HOTMELT COPOLIMER ADHESIVE AND AN EPOXY BASE.

APPLICATIONS:

Anticorrosive Coating for welded joints of buried steel pipes, which operate up to 65°C.

CHARACTERISTICS:

The POLYPIPE PXHE 60 heat-shrinkable mantle provides excellent anti-corrosion protection to the welded joints of steel pipes that operate up to a service temperature of 65°C.

The system consists of a two-component solvent-free epoxy base, a high shear resistance copolymer hot melt adhesive, co-extruded onto a heat-shrinkable cross-linked polyolefin with elastic memory and a seal for application.

MAIN ADVANTAGES:

The POLYPIPE PXHE 60 mantle is easy to install and compatible with integral coating systems made of polyethylene (PE), polypropylene (PP), and epoxy resins (FBE).

It provides excellent resistance to cathodic detachment and high values of both adhesion and shear resistance, both on steel, integral coating, and on itself.

Once installed, it forms a three-layer protection system ideal for interacting in the presence of soil stress, isolating the pipes from potential contact with the electrolyte.



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POLYPIPE[®]
Global Protection System
I N T E R N A T I O N A L

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BACKING

	VALUE	TEST METHOD
Thickness	1,0 / 1,4 mm	ASTM D 1000
Tensile Strength	25 Mpa	ASTM D 638
Elongation at Break	≥ 400 %	ASTM D 638
Water absorption (23°C, 24 hours)	≥ 0,5 %	ASTM D 570
Dielectric Strength	19 KV/mm	ASTM D 149
Volumetric Resistivity	10 16 Ω.cm	ASTM D 257
Hardness	55 Shore D	ASTM D 2240

ADHESIVE

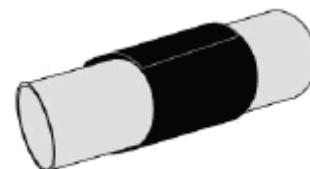
	VALUE	TEST METHOD
Softening Point	> 100 C°	ASTM E-28
Water absorption 23°C (24 hours)	< 1,0 %	ASTM D-570
Shear resistivity at 23°C	2,6 N/mm ²	EN 12068
Shear resistivity at 60°C	0,3 N/mm ²	EN 12068

APPLIED SYSTEM

	VALUE	TEST METHOD
Total Thickness	2,2 / 3,2 mm	ASTM D 1000
Adhesion on Steel @ 23°C	7 N/mm ²	EN 12068
Adhesion on Steel @ 60°C	1 N/mm ²	EN 12068
Cathodic Takeoff @ 23°C	< 2,5 mm Radio	EN 12068
Cathodic Takeoff @ 60°C	< 7 mm Radio	EN 12068
Impact Resistance	> 15 J	EN 12068
Low Temperature Flexibility	-25°C	ASTM D-2671-C

PACKING

In coils of 450 mm x 15 meters.
In boxes per units according to the diameter of the pipe



Observations: The values are indicative, the company reserves the right to modify the technical information without prior notice.