

PRODUCT DATA SHEET //

HBPP Heat Shrinkable Wrap-around

3-layer Girth Weld Field Joint Coatings

Description /

SNI HBPP system is a 3 layer wraparound, polypropylene based heat-shrinkable sleeve and is engineered for corrosion prevention for polypropylene coated pipelines, operating at temperatures up to 120°C. HBPP is designed for higher stress conditions result of elevated temperatures.

Construction: Three-Layer system

First layer : RP10 Two component liquid epoxy.

Second layer: High shear strength polypropylene adhesive

Third layer : Radiation cross-linked, polypropylene backing,



Features & Benefits //

- High shear resistance and designed to prevent hazardous operation, provide high functional performance with safety.
- Excellent performance for aging and provide best shelf life.
- ➤ High operating temperature provide excellent performance at any conditions.
- > Superior cathodic disbondment and hot water immersion resistance offers the optimum barrier long term protection against corrosion
- User friendly, makes installation easy, fast and low cost.

Selection Criteria

	НВРР
Standard Reference EN 12068, ISO 21809-3 14D 1,	
Compatible line coatings	Polypropylene/FBE
Soil stress restriction	None
Max. operating temperature	120 °C
Pre-heat temperature 190 °C	
Recommended pipe preparation Sa 2 ½	

Ordering Information /

HBPP type products are available:

- As cut piece (pre-cut sleeve with separate closure patch)
- ➤ As a roll (closure patches to be ordered separately) Select sleeve width that will overlap onto the mill-applied coating by 2 inches (50 mm) minimum on each side of the weld joint

Sleeve width (mm): 16", 18", 20", 24"

Other width (10"-36") are available as per Customer special requirement.

Product thickness (mm)

Sleeve thickness from 2.0 to 3.5mm are available as per requirement.

Standard Ordering Options

	Cut piece (Pre-Cut sleeve with separate closure patch)		Roll form (closure patches to be ordered separately)	
Example:	HBPP-12 X18/3.2	Example:	HBPP-18 X100/3.2-RL	
PP	Polypropylene	PP	Polypropylene	
12	Outside pipe diameter in inch	18	Roll width in inch	
18	Sleeve width in inch	100	0 Roll length in feet	
3.2	Sleeve thickness in mm	3.2	Roll thickness in mm	
		-RL	Supplied in rolls	

Closure Patch

Example: CP-4X18		
4	Closure patch width in inches	4" (100 mm), 6" (150 mm), 8" (200 mm)
18	Closure patch length in inches	16", 18", 20" 24"



Product Properties /

PP Backing

Properties	Test Method	Typical Values
Tensile strength	ASTM D-638	32MPa
Elongation	ASTM D-638	610%
Hardness, Shore D	ASTM D-2240	62
Oxidation induction time at 220°C	ISO11357-6	165 min

Adhesive

Properties	Test Method	Typical Values
Softening point	ASTM E-28	>150°C
Lap sheer	ISO21809-3	
23°C		7 N/mm ²
110°C		2 N/mm ²

Sleeve

Property	Test Method	Typical Value
Thickness – Sleeve Layers	ISO21809-3 Annex-B	3.2 mm
Holiday detection 5kV/mm+5 kV	ISO21809-3 Annex-C	No Holiday
Impact resistance	ISO21809-3 Annex-D	10 J/mm
Indentation resistance at 110 °C:	ISO21809-3 Annex-E	
Residual thickness		2.5 mm
Pressure		10 N/mm ²
Cathodic disbondment at 28 days	ISO21809-3 Annex-G	
At 23 °C		3.2 mm
At 95 °C		8 mm
Peel strength at 10 mm/min -	ISO21809-3 Annex-H.1	
to pipe surface		
At 23 °C		13 N/mm
At 110 °C		3.2 N/mm
to factory coating PP		
At 23 °C		8.82 N/mm
At 110 °C		3.0 N/mm
Peel strength at 10 mm/min after 100-day hot-water immersion	ISO21809-3 Annex- I&H	
test at 110 °C		
to pipe surface		0.87
to factory coating PP		0.80
Thermal ageing resistance	ISO21809-3 Annex- M	
(aged 100 d, at 95 °C)		
a. Elongation at break (E100/E70)		0.95
b. Peel strength to pipe surface (P100/P70)		0.85
Thermal stability 130 °C for 50 weeks	ISO21809-3 Annex-N	No cracks

Note: The typical values in this data sheet are based on lab prepared samples. For project specific requirements please consult with SNI INDIA

Storage: Indoor, clean, dry away from direct sunlight in a cool place below +50°C

Installation: For proper installation and performance please refer our installation instruction

Personnel Qualification: Installation of the HBPP coating system should be carried out by SNI INDIA certified personnel

















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SNI INDIA ACQUIRED "RAYCHEM RPG" PIPELINE BUSINESS w.e.f. 1st October 2020

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