

# IPPS

## Wraparound Sleeve

A high-performance sleeve specially designed for sealing of pre-insulated pipe joints and for jacket continuation applications.



Market	Application	Temperature Range	Performance
Insulated Pipelines	Insulated Pipe Joints	50°C (60°C under expansion cushions)	>1000 soil stress cycles (FFI)

### System Description

**IPPS for sealing of pre-insulated pipe joints.**

**Adhesive:**

High-shear copolymer adhesive.

**Backing:**

Heavy wall, radiation cross-linked, high density polyethylene with Permanent Change Indicator.

IPPS is a heat-shrinkable, medium-performance wraparound sleeve for pre-insulated pipe joint sealing and jacket continuation. IPPS is applicable to most standard pipe jackets and to most standard joint types (oversized, aluminum/riveted metal, heat-shrinkable casings, half shells). A semi-crystalline adhesive provides excellent sealing and mechanical anchoring. During shrinking, the specially formulated

copolymer adhesive easily melts and flows, filling in the transition between the pipe jacket and the oversized casing. The adhesive ensures a firm bond between the sleeve and the pipe/casing surface. The uncoated zone bonds directly to the underlying casing surface preventing the sleeve from slipping. The dimpled backing permanently indicates that the sleeve is completely shrunk.

### Product Advantages

- **High shrink force HDPE backing**  
Assures a tight bond, thus a strong & homogeneous seal & anchoring of casing and pipe jacket. High performance!
- **High mechanical resistance HDPE backing**  
Absorbs easily temperature cycling, soil stresses, pipe movements & chemical attack. Extremely resistant!
- **Heat- and UV-stabilized**  
Acts as a moisture barrier. Insulation stays intact!
- **Dimpled backing provides a Permanent Change Indicator for application of heat**  
Ensures correct application heat & control of sleeve shrinkage. Reliable inspectability at any time.

### Product Selection Guide

- **Max operating temperature**  
50°C (60° under expansion cushions)
- **Type joint**  
Oversized casing, Heat-shrinkable casing, Metal sheet casing, Half shell
- **Min preheat temperature**  
60°-65°C
- **Recommended pipe preparation**  
Cleaning & Abrading
- **Soil stress restrictions**  
Moderate
- **Pressure testing after installation**  
No (foaming before installation)
- **Product recommended for**  
Service lines
- **Performance**  
>1000 cycles, 8% sand humidity FFI

### Product Construction

	IPPS	IPPS/B
• <b>Backing (as supplied)</b>	0.90 mm	0.75mm
• <b>Backing (fully free recovered)</b>	1.15 mm	1.00 mm
• <b>Adhesive (as supplied)</b>	1.10 mm	1.00 mm

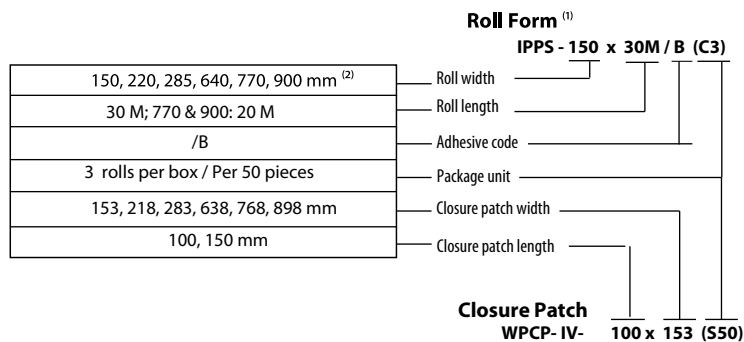
## Product Properties

Properties	Test Method	Typical Value
<b>Backing</b>		
Tensile strength	ASTM D-638	22.8 MPa (3300 psi)
Elongation	ASTM D-638	600%
Hardness, shore D	ASTM D-2240	55
Shrink force	ASTM D-638, 150°C	0.276 MPa (40 psi)
Thermal ageing	ASTM D-3045, 150°C 21 days	
Followed by elongation	ASTM D-638, 23°C	>450%
Weathering (UV) resistance	ASTM D-2565, 30 days	
Followed by elongation	ASTM D-638, 23°C	>450%
Moisture absorption	ASTM D-570	0.05%
<b>Adhesive</b>		
Softening point	ASTM E-28	103°C
Peel strength (to PE)	EN 12068, 10 mm/min.	23 N/cm
Shear strength	ASTM D-1002	241 N/cm <sup>2</sup> (350 psi)
<b>Sleeve</b>		
Soil stress creep resistance	EN 489 8.0% sand humidity	Min. 1000 cycles
External pressure test after soil stress	EN 498 23°C, 0.7 bar, 24 hrs.	Pass
Low temperature impact	-25°C, 1 kg at 1 m height Ø22 mm, 30 drops	Pass

## Ordering Information

### IPPS type products are available:

- as a roll (closure patches to be ordered separately)



(1) Closure patches to be ordered separately. (2) IPPS/B available in 150 & 220 width.

Sleeve cut lengths and appropriate closure patch widths depend on the pipe size and product construction, see latest application table AT-DH-JOINT.



**CORROSION PROTECTION GROUP**  
[www.berrycpg.com](http://www.berrycpg.com)

### Headquarters

**Franklin, MA, USA**  
 Tel: +1 508 918 1714  
 US Toll Free: +1 800 248 0149  
 Fax: +1 508 918 1910  
[CPG@berrypastics.com](mailto:CPG@berrypastics.com)

**Houston, TX, USA**  
 Tel: +1 713 676 0085  
 US Toll Free: +1 888 676 7202  
 Fax: +1 713 676 0086  
[CPGH@berrypastics.com](mailto:CPGH@berrypastics.com)

**Tijuana, Mexico**  
 Tel USA +1 858 633 9797  
 Fax US: +1 858 633 9740  
 Tel Mexico: +52 664 647 4397  
 Fax Mexico: +52 664 607 9105  
[CPGTJ@berrypastics.com](mailto:CPGTJ@berrypastics.com)

**Westerlo, Belgium**  
 Tel. +32 14 722500  
 Fax +32 14 722570  
[CPGE@berrypastics.com](mailto:CPGE@berrypastics.com)

**Baroda, India**  
 Tel: +91 2667 264721  
 Fax: +91 2667 264724  
[CPGIN@berrypastics.com](mailto:CPGIN@berrypastics.com)

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