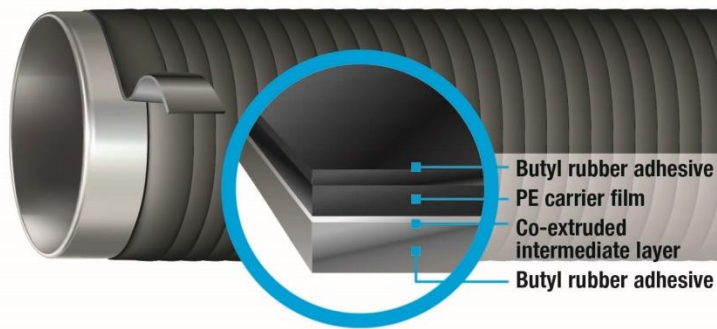


# BUTYLEN-AS39 P

## Product information



### Special advantages:



For temperatures up to +85 °C (+185 °F).



DIN-DVGW approved system:  
C 50 (EN 12068, DIN 30672).



Fulfills the requirements of ISO 21809-3;  
Type 12-1.



Real co-extruded 3-ply tape.



Easy processing through adaptable and  
highly tear-resistant carrier film.



Compatible with factory coatings made  
of PE, PP, FBE, PU, CTE and bitumen.

## Single tape system for the corrosion prevention coating of metal pipes and pipelines in accordance with DIN 30672, EN 12068, ASTM and AWWA. Corrosion prevention system proven for decades – for high mechanical and corrosive stresses.

DEKOTEC GmbH stands for experience, quality and reliability in the field of corrosion prevention and sealing technology. The success is based on the development of the Petrolatum-Tape which was already developed in 1927 as the first product worldwide for passive corrosion prevention of pipelines. We establish and guarantee the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees are continuously implementing safe and individual solutions in a personal cooperation with the customer.

## Description

**BUTYLEN-AS39 P** is a cold applied single tape system for the corrosion prevention of metal pipes and pipelines in a high mechanical and corrosive stress classes.

With its outstanding properties, BUTYLEN-AS39 P is the proven corrosion prevention technology for cold applied corrosion prevention tapes since 1972. Due to the innovative formula, the tapes grow completely together in the overlapping area and create a long-lasting hose-type coating.

BUTYLEN-AS39 P is a system approved by DIN-DVGW (**C 50**).

Approved by:



Standard designation:  
(Reg.No.:NV-5180AL0268)

- EN 12068 – **C 50**
- DIN 30672 – **C 50**

BUTYLEN-AS39 P is basically impermeable for water vapor and oxygen and it is resistant against soil bacteria and electrolytes.

BUTYLEN-AS39 P is compatible with factory coatings made of PE, PP, FBE, PU, CTE and Bitumen.

The system BUTYLEN-AS39 P consists of:

### **BUTYLEN-HT Primer**

A solvent containing primer in accordance with EN 12068 and DIN 30672 for the corrosion prevention with **BUTYLEN** tapes. Please refer to the separate product information of the BUTYLEN-HT Primer.

### **BUTYLEN-AS39 P**

A real co-extruded 3-ply plastic tape made from stabilized polyethylene carrier materials with butyl rubber adhesive.

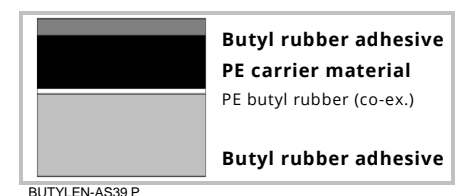
BUTYLEN-AS39 P has a thickness of  $\geq 0.8$  mm.

BUTYLEN-AS39 P fulfills the international standards DIN 30672 and EN 12068.

### **Supplementary products:**

**BUTYLEN-W** and **-WP Mastic** as permanently plastic formable butyl rubber mastic for the equalization of unevennesses and cavities.

**DEPROTEC®-DRM PP** rockshields made of polypropylene non-woven material for the additional mechanical protection of **BUTYLEN** coatings with shock absorbing and load distributing effects.



## Typical product properties

| Property                              | Unit                                    | BUTYLEN-AS39 P<br>Typical value | Test method            |
|---------------------------------------|---|---------------------------------|------------------------|
| Carrier film color                    | -                                       | Black                           | -                      |
| Butyl adhesive color inside           | -                                       | Grey                            | -                      |
| Butyl adhesive color outside          | -                                       | Black or yellow                 | -                      |
| Total thickness                       | mm                                      | ≥ 0.8                           | ISO 4591<br>ASTM D1000 |
| Carrier film thickness app.           | mm                                      | ≥ 0.28                          |                        |
| Inside adhesive layer thickness app.  | mm                                      | ≥ 0.5                           |                        |
| Outside adhesive layer thickness app. | mm                                      | ≥ 0.02                          |                        |
| Elongation at break                   | %                                       | ≥ 600                           | DIN 30672              |
| Tape strength                         | +23°C (+73.4°F)<br>N/cm                 | ≥ 100                           | EN 12068               |
| Dielectric strength                   | kV / mm                                 | ≥ 40                            | DIN 53481              |
| Water absorption                      | +23°C (+73.4°F)<br>1 day / 30 days<br>% | ≤ 0.1 / ≤ 0.4                   | DIN 53495<br>ASTM D570 |
| Brittleness temperature               | °C (°F)                                 | -46±4 (-50.8±7.2)               | DIN 53372              |
|                                       |   | -58±4 (-72.4±7.2)               | GOST 10354             |

### BUTYLEN-AS39 P (4 layers) with BUTYLEN-HT Primer

| Property  | Unit                 | Typical value                 |                       | Required value    | Test method            |  |
|---|----------------------|-------------------------------|-----------------------|-------------------|------------------------|--|
| Electrical insulation resistance  | Ohm m <sup>2</sup>   | ≥ 10 <sup>10</sup>            |                       | ≥ 10 <sup>8</sup> | EN 12068               |  |
| Contact resistance  | Ohm cm               | ≥ 10 <sup>15</sup>            |                       | Not stated        | DIN 53482<br>ASTM D257 |  |
| Peel resistance<br>metal/prime coat/AS39 P  | N/cm                 | <b>+23°C (+73.4°F)</b>        | <b>+50°C (+122°F)</b> | ≥ 10   ≥ 1        | EN 12068<br>ASTM D1000 |  |
|   |                      | ≥ 25                          | ≥ 2.5                 |                   |                        |  |
| Peel resistance layer to layer<br>AS39 P / AS39 P   | N/cm                 | <b>+23°C (+73.4°F)</b>        | <b>+50°C (+122°F)</b> | ≥ 10   ≥ 2        | EN 12068               |  |
|   |                      | ≥ 33                          | ≥ 2.5                 |                   |                        |  |
| Indentation resistance - residual layer<br>thickness at stamp load:<br>(Stamp-Ø 1.80 mm – four-layer) | mm/N/mm <sup>2</sup> | <b>+50°C (+122°F)</b>         |                       | > 0.6             | EN 12068               |  |
|   |                      | ≥ 0.8 / 10 (fulfills class C) |                       |                   |                        |  |
| Impact resistance (4 layer)   | J                    | ≥ 15 (class C)                |                       | ≥ 15              | EN 12068               |  |
| Cathodic disbondment resistance   | mm                   | ≤ 6                           |                       | Not stated        | ASTM G8                |  |
| Lap shear strength  | N/cm <sup>2</sup>    | <b>+23°C (+73.4°F)</b>        |                       | ≥ 5               | EN 12068               |  |
|   |                      | on steel                      | ≥ 15                  |                   |                        |  |
|   |                      | on factory coating            | ≥ 15                  |                   |                        |  |

**BUTYLEN** tapes can be easily applied manually. The processing with the original **DEKOMAT**<sup>®</sup> wrapping devices is even more efficient. For **BUTYLEN** tapes with widths of > 50 mm, we recommend the use of the **DEKOMAT**<sup>®</sup> wrapping device to guarantee an excellent processing quality.

## Ordering information and packaging

### BUTYLEN-AS39 P, Core Ø 78 mm

| Tape width (mm) | Tape length (m) | Tape area (m <sup>2</sup> /roll) | Content per box |                                   |                       | App. Weight (kg) |
|-----------------|-----------------|----------------------------------|-----------------|-----------------------------------|-----------------------|------------------|
|                 |                 |                                  | Number of rolls | Total tape area (m <sup>2</sup> ) | Total tape length (m) |                  |
| 100             | 70              | 7                                | 3               | 21                                | 210                   | 19,0             |
| 150             | 70              | 10,5                             | 2               | 21                                | 140                   | 19,0             |

Additional lengths and widths are available on request.

## Storage

When stored in its original, unopened packaging, **BUTYLEN-AS39 P** can be stored for at least 60 months after the manufacturing date.

Storage temperature: ≤ +50°C (+122°F)

Store in a dry location and do not rest anything against the front of the product.

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09.2019