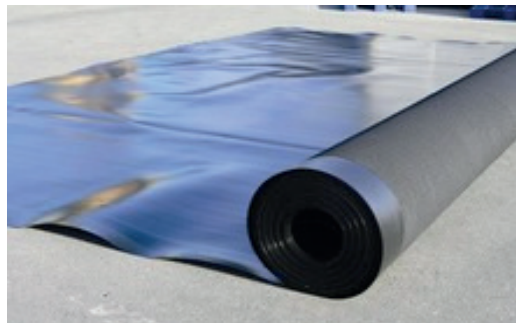


# Specialist Geomembranes

## Technical Data Sheet

### Landflex PE75LL Smooth

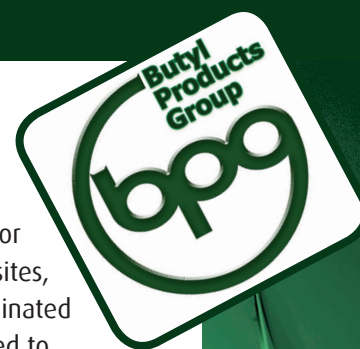


A high quality, single layer LLDPE suitable for use as a barrier membrane on brownfield sites, petrol stations, coalfields, landfill & contaminated industrial areas. The material is highly suited to attenuation ponds, lagoons, water features & as a high performance damp proof membrane because of its high puncture resistance. The membrane offers protection from Carbon Dioxide, Methane and Radon as well as certain common hydrocarbons.

All Landflex PE-LL geomembranes are certified according to the relevant European Standards: EN 13361, EN 13362, EN 13491, EN 13492, EN 13493, EN 15382 & EN 13967

The information herein is based upon data obtained by the manufacturer and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data. This information is furnished upon the condition that the person receiving it shall evaluate its suitability for the specific application.

| Material Properties                    | Unit              | Test Method                        | Typical Values |
|----------------------------------------|-------------------|------------------------------------|----------------|
| Density                                | g/cm <sup>3</sup> | DIN EN ISO 1183-1                  | < 0.940        |
| Melt flow range 190/2.16               | g/10 min          | DIN EN ISO 1133                    | 0.20 - 0.70    |
| Carbon black content (TGA)             | %                 | ASTM D 1603                        | 2.0 - 3.0      |
| Carbon black dispersion                | -                 | ASTM D 5596                        | Category 1-2   |
| <b>Durability</b>                      |                   |                                    |                |
| Oxidation resistance                   | -                 | DIN EN 14575                       | Fulfilled      |
| Oxidative induction time (OIT)         | min               | ASTM D3895                         | >100           |
| Stress crack resistance                | h                 | DIN EN 14576                       | >200           |
| Weathering resistance                  | h                 | DIN EN 12224                       | >3000          |
| Root resistance                        | -                 | DIN EN 14416                       | Fulfilled      |
| Resistance to Leaching                 | -                 | DIN EN 14415                       | Fulfilled      |
| Chemical resistance                    | -                 | DIN EN 14414                       | Fulfilled      |
| Microbiological resistance             | -                 | DIN EN 12225                       | Fulfilled      |
| <b>Functional Properties</b>           |                   |                                    |                |
| Foldability at low temperature         | °C                | DIN EN 495-5                       | < -40          |
| Dimensional stability                  | %                 | DIN EN 1107-2                      | < 2.0          |
| <b>Mechanical Properties</b>           |                   |                                    |                |
| Thickness<br>Tolerance                 | mm<br>%           | DIN EN 1849-2                      | 0.75<br>±5     |
| Tensile strength at yield<br>Tolerance | Mpa               | DIN EN ISO 527<br>Type 5/100mm/min | 14<br>-3       |
| Elongation at yield<br>Tolerance       | %                 |                                    | 900<br>-100    |
| Tensile strength at break<br>Tolerance | Mpa               |                                    | 36<br>-3       |



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## Butek Landline

Containment Solutions

Spec. 22.1 Rev. D

# Specialist Geomembranes

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### Landflex PE75LL Smooth



| Mechanical Properties            |      |                                              |             |
|----------------------------------|------|----------------------------------------------|-------------|
| Elongation at break<br>Tolerance | %    | DIN EN ISO 527<br>Type 5/100mm/min           | 900<br>-100 |
| Tear resistance<br>Tolerance     | N/mm | ISO 34 Method B<br>Procedure (a)<br>50mm/min | 130<br>-20  |
| Static puncture<br>Tolerance     | kN   | DIN EN ISO 12236                             | -<br>-      |
| Bursting pressure                | %    | DIN 61551                                    | -           |
| Resistance to static loading     | -    | DIN EN 12730                                 | -           |



Example application: Reed bed linings

Case Study Link: [Reed Bed Case Study](#)



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