



Product benefits of Polysystem PL



EXCELLENT ENVIRONMENTALLY FRIENDLY SOLUTION

Polysystem membranes are 100% recyclable, including packaging such as tapes and labels.



SUPERIOR SPEED AND SAFETY DURING INSTALLATION



EXCELLENT RESISTANCE TO HIGH AND LOW TEMPERATURE



SUPERIOR LIFE SPAN



EXCELLENT RESISTANCE TO UV RADIATION

Polysystem membranes do not require any kind of protection and can be directly exposed to the elements.



EXCELLENT PUNCTURE RESISTANCE

Polysystem membranes perform excellently when mechanically fastened.

Polysystem PL (Plain)

Flexible polyolefin membranes (TPO) without reinforcement produced by co-extrusion of Fortuline R polyolefin alloy

Description

Over the last 15 years the European market has seen a trend towards consolidation in the area of TPO-based waterproofing products.

For years designers and installers alike have benefitted from the technical properties and the environmental advantages offered by these waterproofing sheets.

As one of the first manufacturers to see the possibilities offered by TPO (especially its environmentally friendly properties), Polysystem developed the range of Polysystem TPO products.

With the challenges of the future in mind, we have reorganised our product list, dividing the products into categories representing the use for which each is designed.

The new Polysystem range, alongside the more traditional roof waterproofing membranes, Polysystem, now also includes a range of Polysystem Hydro products for hydraulic applications as well as Polysystem Sub materials for use in underground conditions.

We are confident that our wide range of membranes and accessories for specific applications complete a product portfolio, which will meet all the requirements of our clients.

Polysystem PL

Polysystem PL is a waterproofing membrane without reinforcement produced by co-extrusion of Fortuline R polyolefin alloy.

The upper and lower surfaces are coloured differently so that the integrity of the membrane layer can be monitored more easily during installation and service life.

Polysystem PL membranes are ideal for use in roof waterproofing mechanically fastened, ballasted and roof gardens.

Polysystem PL has been designed to provide excellent resistance to the ageing effects of UV radiation and heat, and to ensure the longest possible service life even under the harshest conditions.



POLISYSTEM UK LTD.®



Field of use

EN 13956

- roof waterproofing, exposed, mechanically fastened
- roof waterproofing, covered, ballasted
- roof waterproofing, covered, roof gardens

Installation

Weld using hot air (indicative conditions: 350°C at 2m/min)

Standard colours

Grey top surface and black underneath (single layer)

N.B. Other colours available on request

| Characteristics | Norms | U.M. | Tolerance | Test results | | | |
|---------------------------------------|---------------------|-------------------|-----------|---|------|------|------|
| Standard thickness (1) | EN 1849-2 | mm | -5%;+10% | 1.20 | 1.50 | 1.80 | 2.00 |
| Mass per unit area | EN 1849-2 | kg/m ² | | 1.08 | 1.35 | 1.62 | 1.80 |
| Tensile properties | | | | | | | |
| Max load (MD/CMD) | EN 12311-2 B | N/mm ² | ≥ | 16/15 | | | |
| Elongation at break (MD/CMD) | | % | -15% | 700/700 | | | |
| Tear strength | | | | | | | |
| MD max load | EN 12310-2 | N | ≥ | 150 | 180 | 200 | 230 |
| Elongation at break (MD/CMD) | | N | ≥ | 150 | 180 | 200 | 230 |
| Static indentation | EN 12730-B | kg | ≥ | 25 | | | |
| Impact | EN 12691-B | mm | ≥ | 1000 | 1250 | 1500 | 1750 |
| Cold flexibility (2) | EN 495-5 | °C | ≤ | -40 | | | |
| Dimensional stability | | | | | | | |
| MD | EN 1107-2 | % | ≤ | 0.5 | | | |
| CMD | | % | ≤ | 0.5 | | | |
| Watertightness | EN 1928 | kpa | ≥ | 200 | | | |
| Vapour permeability | EN 1931 | μ | ≤ | 90,000 | | | |
| Shear of weldings | EN 12317-2 | | | Pass | | | |
| Peeling of weldings | EN 12316-2 | N/cm | ≥ | 60 | | | |
| Reaction to fire | EN 13501-1 | | | E roof | | | |
| External fire performance | EN13501-5 | | | NPD | | | |
| Resistance to root penetration | BBA 04/4109 | | | Pass | | | |
| UV resistance | EN 1297 | | | Pass | | | |
| Dangerous substances | | | | The product does not contain hazardous substances | | | |

Tolerances according to EN 13956

- 1) **Standard thickness 1.2mm.** Other thicknesses up to 3 mm available on demand
- 2) Not tested at lower temperature

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