



## Polysystem Hydro N

*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.

## Product benefits of Polysystem Hydro N



### 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 Hydro N

**Polysystem Hydro N** 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 Hydro N** membranes are ideal for use in waterproofing canals, dams and reservoirs.

**Polysystem Hydro N** 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.



**POLYSYSTEM UK LTD.®**



Field of use	Installation
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**EN 13361**  
 - geosynthetic barrier using in the construction of reservoirs, covered / not covered in service  
 - geosynthetic barrier used in the construction of dams, covered / not covered in service

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

**EN 13362**  
 - geosynthetic barrier used in the construction of canals, covered / not covered in service

Standard colours
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Green 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 <sup>2</sup>		1.08	1.35	1.62	1.80
<b>Tensile properties</b>							
Max load (MD/CMD)	EN 12311-2 B	N/mm <sup>2</sup>	≥	16/15			
Elongation at break (MD/CMD)		%	≥	700/700			
<b>Tear strength</b>							
Tear resistance (MD/CMD)	EN 12310-2	N	≥	150/150	180/180	200/200	230/230
Static indentation	EN 12730-B	kg	≥	25			
Static puncture	EN ISO 12236	KN	≥	1.70	2.00	2.30	2.50
Impact	EN 12691-B	mm	≥	1000	1250	1500	1750
<b>Dimensional stability</b>							
MD	EN 1107-2	%	≤	0.5			
CMD		%	≤	0.5			
Cold flexibility (2)	EN 495-5	°C	≤	-40			
Watertightness	EN 1928	kpa	≥	200			
Water permeability	EN 14150	m <sup>3</sup> /m <sup>2</sup> /die		NPD			
Shear of weldings	EN 12317-2			Pass			
Peeling of weldings	EN 12316-2	N/cm	≥	60			
Resistance to root penetration	prEN 13948			NPD			
UV resistance	EN 1297			Pass			
Oxidation	EN 14575			Pass			
Dangerous substances		The product does not contain hazardous substances					

Tolerances according to EN 13956

- 1) Other thicknesses up to 3mm available on demand
- 2) Not tested at lower temperature

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