



Product benefits of Polysystem Sub 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 Sub N

Flexible polyolefin membranes (TPO) without reinforcement produced by co-extrusion of Fortuline G 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 Sub N

Polysystem Sub N is a waterproofing membrane without reinforcement produced by co-extrusion of Fortuline G 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 Sub N membrane are ideal for use as barriers against fluids during construction of tunnels and underground structures and have been designed to suit underground conditions

During application, exposure to sunlight should be kept to a minimum.



Field of use

EN 13491

- geosynthetic barriers used as fluid barrier in the construction of tunnels.
- geosynthetic barriers used as fluid barriers in the construction of underground structures

EN 13697

- damp-proof sheet (Type A)
- damp-proof ventilating or draining sheet (Type V)
- tanking sheet (Type T)

Installation

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

Standard colours

Yellow top surface and black underneath (single layer)

N.B. Other colours available on request

Precautions

Polisystem Sub N membranes are formulated for use underground therefore exposure to sunlight must be limited

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 ISO 527	N/mm ²	≥	16/15			
Elongation at break (MD/CMD)		%	-15%	700/700			
Tear strength							
Nail shank (MD/CMD)	EN 12310-1	N	≥	240/330	400/450	500/550	600/650
Tear resistance	EN 12310-2	N	≥	150/150	180/180	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
Cold flexibility (2)	EN 495-5	°C	≤	-40			
Dimensional stability							
MD	EN 1107-2	%	≤	0.5			
CMD		%	≤	0.5			
Watertightness	EN 1928	kpa	≥	200			
Water permeability	EN 14150	m ³ /m ² /die		NPD			
Shear of weldings	EN 12316-2	N/cm	≥	60			
Peeling of weldings	EN 12317-2			Pass			
Resistance to root penetration	prEN 13948			NPD			
Oxidation	EN 14575			Pass			
Reaction to fire	EN 13501-1			E d ²			
External performances	EN 13501-5			NPD			
Dangerous substances				The product does not contain hazardous substances			

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Tolerances according to EN 13956
1) Other thicknesses up to 3mm available on demand
2) Not tested at lower temperature



POLISYSTEM UK LTD.®