



Product benefits of Polysystem GS



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 GS

Flexible polyolefin membranes (TPO) reinforced with glass net 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 GS

Polysystem GS is a waterproofing membrane reinforced with a glass net, 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 GS membranes are ideal for use in roof waterproofing mechanically fastened, ballasted and roof gardens.

Polysystem GS 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.

The glass net considerably increases the mechanical properties and the stability of the waterproofing layer in the presence of significant thermal movement.



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 A	N/50mm	≥	900/800			
Elongation at break (MD/CMD)		%	≥	100/100			
Tear strength							
MD max load	EN 12310-2	N	≥	270	300	330	360
Elongation at break (MD/CMD)		N	≥	320	350	380	410
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	%	≤	0.2			
CMD		%	≤	0.2			
Watertightness	EN 1928	kpa	≥	200			
Vapour permeability	EN 1931	μ	≤	50,000			
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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