



## Product benefits of Polysystem FG



### 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 FG

*Flexible polyolefin membranes (TPO) reinforced with glass fibre 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 FG

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

**Polysystem FG** 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 fibre reinforcement considerably increases 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			
<b>Standard thickness (1)</b>	<b>EN 1849-2</b>	mm	-5%;+10%	1.20	1.50	1.80	2.00
<b>Mass per unit area</b>	<b>EN 1849-2</b>	kg/m <sup>2</sup>		1.08	1.35	1.62	1.80
<b>Tensile properties</b>							
Max load (MD/CMD)	<b>EN 12311-2 A</b>	N/50mm	≥	550/450	600/500	650/550	700/600
Elongation at break (MD/CMD)		%	-15%	700/700			
Max load (MD/CMD)	<b>EN 12311-2 B</b>	N/mm <sup>2</sup>	≥	9/9			
Elongation at break (MD/CMD)		%	≥	300/300			
<b>Tear strength</b>							
MD max load	<b>EN 12310-2</b>	N	≥	150	180	200	230
Elongation at break (MD/CMD)		N	≥	150	180	200	230
<b>Static indentation</b>	<b>EN 12730-B</b>	kg	≥	25			
<b>Impact</b>	<b>EN 12691-B</b>	mm	≥	1000	1250	1500	1750
<b>Cold flexibility (2)</b>	<b>EN 495-5</b>	°C	≤	-40			
<b>Dimensional stability</b>							
MD	<b>EN 1107-2</b>	%	≤	0.1			
CMD		%	≤	0.1			
<b>Watertightness</b>	<b>EN 1928</b>	kpa	≥	200			
<b>Vapour permeability</b>	<b>EN 1931</b>	μ	≤	50,000			
<b>Shear of weldings</b>	<b>EN 12317-2</b>			Pass			
<b>Peeling of weldings</b>	<b>EN 12316-2</b>	N/cm	≥	60			
<b>Reaction to fire</b>	<b>EN 13501-1</b>			E roof			
<b>External fire performance</b>	<b>EN13501-5</b>			NPD			
<b>Resistance to root penetration</b>	<b>EN 13948</b>			NPD			
<b>UV resistance</b>	<b>EN 1297</b>			Pass			
<b>Dangerous substances</b>				The product does not contain hazardous substances			

Tolerances according to EN 13956

1) Other thicknesses up to 3 mm available on demand

2) Not tested at lower temperature

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