

## FLAGON EP/PR Energy Plus

### Description

Membrane composed of modified polyolefin (TPO) and a polyester reinforcement.  
The top has a very high reflectivity.  
Used as single layer waterproofing where a higher reflectivity of solar radiation is desired.  
The membrane is distinguished by a very high resistance to weathering and UV-ray and with a high resistance to puncture.

### Composition

Material	modified polyolefin (TPO)
Reinforcement	polyester
Colour upper side	traffic white (RAL 9016)

### Packing

Membrane thickness (mm)	1,5	1,8	2,0	2,4
Length of the roll (m)	20			
Width of the roll (m)	2,10			
Mass of the roll (kg)	58,8	70,6	77,7	98,7
Rolls/pallet	23	18		11

### Characteristics

Membrane thickness (mm) (EN 1849-2)	MDV	1,5	1,8	2,0	2,4
Mass (kg/m <sup>2</sup> ) (EN 1849-2)	MDV	1,40	1,68	1,85	2,35
Maximum tensile force (N/50 mm) (EN 12311-2 met A)	MLV	1100			
Elongation at maximum tensile force (%) (EN 12311-2 met A)	MLV	15			
Resistance to tear (nail shank) (N) (EN 12310-2)	MLV	300			
Resistance to impact (mm) (EN 12691 met A)	MLV	800	900	1250	1500
Foldability at low temperature (°C) (EN 495-5)	MLV	-40			
Peel resistance joint (N/50 mm) (EN 12316-2)	MLV	200			
Shear resistance joint (N/50 mm) (EN 12317-2)	MLV	600 (rupture outside joint)			
Watertightness (EN 1928 met B)		conform			
Dimensional stability (%) (EN 1107-2)	MLV	0,5			
Durability: exposure to UV, heat and water (EN 1297)		grade 0			
Resistance to root penetration (EN 13948)		conform			
Resistance to static loading (kg) (EN 12730 met A)	MLV	20			
Reaction to fire (EN 11925-2 / EN 13501-1)		E			
SRI (Solar Reflectance Index) (ASTM E 1980-1)		9			

MDV = manufacturer declared value / MLV = manufacturer limiting value / NPD = no performance determined

### Installation

Mechanically applied waterproofing.  
The overlaps need to be welded with hot air.  
The membrane is applied in conjunction with accessories from Flag.

### Certifications

- BBA 00/3750

### Special indications

#### Hygiene, Health and Environment

The product does not contain any substance which is likely to be detrimental to your health or to the environment and complies with generally admitted Health and Safety Requirements.  
For more information, please refer to the relevant safety data sheet.

#### Quality-, Environment- and Safety Management

**SOPREMA** always recognises as a high level of importance the quality of the products, the environment and safety. For this reason, we operate independently monitored Quality and Environment Assurance Systems in line with **EN ISO 9001** and **EN ISO 14001**.

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