



## MEMBRANA PM Plus

**1. Product trade name:** Base bitumen sheet MEMBRANA PM Plus

**2. Technical specification:**

PN-EN 13707 + A2:2012 IDT. EN 13707:2004 + A2:2009

Flexible sheets for waterproofing – Reinforced bitumen sheets for roof waterproofing –  
Definitions and characteristics

**3. Manufacturer:** ICOPAL Sp. z o.o., 98-220 Zduńska Wola ul. Łaska 169/197, Poland

**4. Description of the product:**

sheet with stabilized polyester fleece reinforcement, coated with SBS modified bitumen  
with mineral filler, top side is profiled and finished with foil, bottom side is finished with sand.  
The sheet is produced on the basis of “SPEED PROFILE SBS” technology.

**5. Type of application:** base layer, for multilayer applications in roof waterproofing

**6. Method of application:** mechanically fastened or torch applied

**7. Information for users:**

Conditions of application:

the roofing sheet should be applied on a roof when the temperature does not fall below 0 °C. It should not be applied: on a wet roof surface, on a roof covered with ice, during rain or snow falls or during strong wind.

Conditions of usage:

waterproofing made with the use of MEMBRANA PM Plus should be done according to a technical project complying with binding building regulations and detailed guidelines included in the manual issued by the producer.

Storage:

the rolls should be stored in rooms and should be protected against moisture and exposure to sunlight or source of heat. The rolls should be stored on an even surface in upright position, in one layer.

Transport:

the rolls should be transported in covered trucks, in upright position in one layer, protected against falling over and any other damage. Rolls should be placed in a way preventing their dislocation during transport.



**8. Product performance:**

	<b>Characteristic</b>	<b>Test method/ Classification</b>	<b>Units</b>	<b>Value or statement</b>
1.	Visible defects	EN 1850-1	----	no visible defects
2.	Length (*)	EN 1848-1	m	≥ 10,0
3.	Width (*)	EN 1848-1	m	≥ 0,99 (1,00 ± 0,01)
4.	Straightness	EN 1848-1	----	deviation: ≤20 mm / 10 m or proportional for other lengths
5.	Thickness	EN 1849-1	mm	3,0 ± 0,2
6.	Watertightness	EN 1928 Method B	----	resistant to 100 kPa
7.	Reaction to fire	EN 13501-1	----	Class E
8.	Tensile properties: maximum tensile strength -longitudinal direction, -transverse direction	EN 12311-1	N/50 mm	750 ± 250 550 ± 200
9.	Tensile properties: elongation -longitudinal direction -transverse direction	EN 12311-1	%	45 ± 15 45 ± 15
10	Resistance to tearing (nail shrank) -longitudinal direction, -transverse direction	EN 12310 -1	N	275 ± 50 275 ± 50
11.	Flexibility at low temperature	EN 1109	°C	≤ -15 /Ø30 mm
12.	Flow resistance at elevated temperature	EN 1110	°C	≥ 100
13.	Water vapour transmission properties	EN 13707	----	μ=20 000

(\*) there is a possibility to produce the sheet of different length and/or width on condition that the length and/ or width specified in tests is not lower than declared