

## IMPERPUMA BM P-4



Asphalt membrane made with modified bitumen. Complies with the European standard UNE EN 13707



### DESCRIPTION

1m x 10m x 4kg/m<sup>2</sup> elastomer (SBS) modified bitumen membrane, with polyethylene film reinforcement, finished with non-stick polyethylene film on both sides. Bituminous waterproofing membrane of the type LBM-40-PE.

### COMPOSITION

It is composed of polyethylene film reinforcement, elastomer-modified bitumen mastic and finished with non-stick polyethylene film on both sides.

### FEATURES AND APPLICATIONS

- Single layer system under heavy protection.
- Two layer system under heavy protection.
- Lower membrane in two layer system exposed to weather.
- Membrane for making underground structures watertight and lower membrane in roof garden.

### INSTRUCTIONS FOR USE

- Install by adhesion using a blowtorch.

### CAUTIONS AND RECOMMENDATIONS

- Not recommended as a top membrane in a two layer system exposed to weather, a single layer system exposed to weather or as a top membrane in roof gardens.
- Store horizontally.
- Protect from weather conditions and humidity.
- Do not apply at temperatures below -5°C.

### PACKAGING

Packaged in pallets with 25 rolls per pallet. Maximum shelf life: 12 months, protected from weather conditions and humidity.

### STANDARDS

This membrane has the AENOR N Mark.

Notified Organisation N°: 0099

Year CE Mark awarded: 2006

CPF Certificate N°: 0099 / CPD / A85 / 0019

# ASPHALT PRODUCTS

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### TECHNICAL DATA

Product complies with annex Z.A. of the standard UNE-EN 13707

TECHNICAL CHARACTERISTICS	TEST STANDARD	UNIT	VALUE
External Fire Behavior	prEN 13501-5	-	PND
Reaction to fire	EN 13501-1	-	E
Watertightness	EN 1928 (A)	-	Pass
Longitudinal Traction Resistance	EN 12311-1	N/50 mm	200±100
Transversal Traction Resistance	EN 12311-1	N/50 mm	200±100
Longitudinal elongation at breakpoint	EN 12311-1	%	350±100
Transversal elongation at breakpoint	EN 12311-1	%	350±100
Root penetration resistance	prEN 13948	-	PND
Static load resistance	EN 12730	Kg	PND
Impact resistance	EN 12691	mm	PND
Joint resistance to longitudinal shear	EN 12317-1	N/5 cm	200±100
Joint resistance to transversal shear	EN 12317-1	N/5 cm	200±100
Foldability	EN 1109	°C	≤ -15
Water vapor transmission	EN 1931	(m <sup>2</sup> .s.Pa)/Kg	20.000
Creep resistance	EN 1110	°C	≥80
Dimensional stability	EN 1107-1	%	≤2.5
Adhesion of granules	EN 12039	%	PND
Hazardous substances	-	-	PND

PND: Performance Not Determined; Pass: Positive; Does not pass: Negative

OTHER ADDITIONAL CHARACTERISTICS	TEST STANDARD	UNIT	VALUE
Visible defects	EN 1850-1	-	Faultless
Mass	EN 1849-1	Kg/m <sup>2</sup>	[3.80-4.40]
Thickness	EN 1849-1	mm	[3.00-3.20]
Length	EN 1848-1	m	10
Width	EN 1848-1	m	1
Straightness	EN 1848-1	-	Pass
Roll surface area	-	m <sup>2</sup>	10
Rolls per pallet	-	-	10

### NOTE

The instructions for use are given according to our tests and knowledge and do not imply any commitment by GRUPO PUMA nor free the consumer from the examination and verification of the products for their correct use. Claims must be accompanied by the original packaging to allow a proper traceability.

GRUPO PUMA is not responsible, in any case, for the application of its products or constructive solutions carried out by the application company or other parties involved in the process and / or execution of the work, limiting the responsibility of GRUPO PUMA exclusively to the damages directly attributable to the supplied products, individually or integrated in systems, due to failures in their manufacturing process.



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In any case, the drafter of the work project, the technical management or the person responsible for the work, or collaterally the application company or other parties involved in the process and / or execution of the work, must ensure the suitability of the products addressing the characteristics of them, as well as the conditions, support and possible pathologies of the work in question.

The values obtained by GRUPO PUMAS's products or its constructive solutions that, as the case may be, are determined by the EN standards or any other regulation that applies to it in each case refers exclusively to the conditions specifically stipulated in said regulation and that are referred to, among others, to certain characteristics of the support, humidity and temperature conditions, etc. without being them required in the tests obtained under different conditions, all in accordance with the relevant regulation.