

## Technical sheet

### EPS 100GRAPHITE

### Expanded polystyrene EPS 100GR

#### Use:

Thermo insulating wallboards made from expanded polystyrene beads for buildings, made from raw fireproofed material from the ADEPLAST EPS 100GRAPHITE range; they are used as thermo insulating panels for: spaces with low and medium static load, uncirculated terraces and ETICS system facades (thermo insulating systems at the exterior of buildings).



#### Technical data:

Item no.:	<b>EPS 100 GRAPHITE</b>		
Labeling according to SR EN 13163+A1:2015	<b>EPS100GR-EN13163-T1-L2-W1-Sb1-P3-BS150-CS(10)100-DS(N)2-DS(70,90)1-TR150-WL(T)2</b>		
Reaction to fire	<b>E</b>		SREN 13501-1
Long-lasting water absorption by immersion, (%)		NPD	SREN 12087
Dangerous substances emission		NPD	SREN 13163
Dynamic rigidity		NPD	SREN 29052-1
Thermal resistance, ( $m^2K/W$ )		0,67 for a thickness of 20mm 1,67 for a thickness of 50mm 3,33 for a thickness of 100mm 5,00 for a thickness of 150mm 6,67 for a thickness of 200mm	SREN 12667
Heat conductivity, ( $W/Mk$ )		0.030	SREN 12939
Thickness, (mm)	<b>T1</b>	+/- 1	SREN 823
Water vapor transmission, ( $Mg/Pa.h.m$ )		NPD	SREN 12086
Compressive stress at a deformation of 10%, (kPa)	<b>CS(10)100</b>	CS $\geq$ 100	SREN 826
Determination of deformation under specified load conditions to compression and temperature, (%)	<b>DLT(1)5</b>	$\leq$ 5	SREN 1605
Tensile strength, (kPa)	<b>BS150</b>	BS $\geq$ 150	SREN 12089
Stretch resistance perpendicular to the fronts, (kPa)	<b>TR150</b>	TR $\geq$ 150	SREN 1607
Length, (mm)	<b>L2</b>	1000 +/- 2	SREN 822
Width, (mm)	<b>W1</b>	500 +/- 1	SREN 822
Perpendicularity to length and width, (mm/m)	<b>S<sub>b</sub>1</b>	+/- 1	SREN 824
Perpendicularity to thickness, (mm/m)	<b>S<sub>d</sub>1</b>	+/- 1	SREN 824
Smoothness, (mm)	<b>P3</b>	+/- 3	SREN 825
Dimensional stability under normal laboratory conditions, (%)		NPD	SREN 1603
Dimensional stability under specified temperature and humidity conditions, (%)	<b>DS(70,90)1</b>	1	SREN 1604
Shear resistance-T, (kPa)	<b>SS75</b>	$\geq$ 75	SREN 13163 (table F.1)
Water vapor diffusion strength $\mu$		30-70	SREN 13163 (table F.2)
Water vapor permeability- $\delta$ , ( $mg/(Pa.h.m)$ )		0,009-0,020	SREN 13163 (table F.2)
Storage / Validity: 24 months from date of fabrication on the packaging. Store in dry spaces on wooden pallets, away from direct sunlight exposure, high temperatures and open fire.			

Technical data are determined under standard conditions, according to SR EN 13163+A1:2015

**Important:**

- During storage and processing, wallboards should not be exposed to direct sunlight, high heat and open fire;
- **Wallboards should not be exposed to fire, aliphatic hydrocarbons, liquid hydrocarbons, acid anhydride, organic solvents and generally corrosive materials or potentially inflammable;**
- This technical sheet replaces all previous versions. Information in this technical sheet represent our experience with this product up to this day. This technical sheet does not clear the user of the product from making his own decision and evaluation including by samples, regarding the appropriateness of using the product. ADEPLAST products as well as their aggregate raw materials are continuously monitored in our own laboratories for consistent quality. Our advisory service is available for questions regarding product application and demonstrations. Comply with the information in the security technical sheet.

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