



THERMOPLASTIKI

DECLARATION OF PERFORMANCE

No. 05.009 – 305/11/EU – 25/October/2022

Graphite Expanded Polystyrene EPS

1. Unique identification code of the product type: **EPS 80 feliblok plus**
 2. Intended use: **Buildings thermal insulation & External thermal insulation applications**
 3. Manufacturer: **THERMOPLASTIKI S.A. Amigdaleonas, Kavala
P.C. 64012**
 4. Authorised representative: **Not applicable**
 5. AVCP Systems (evaluation and confirmation of performance stability): **3**
 6. Harmonised Standard: **EN 13163:2012, EN 14309:2015** and meet the requirements of **EAD 040083-00-0404** (according to the **CERTIFICATE: 506936 THERM/DQS/2022-06-30**)
- Notified laboratory: **IMBiGS, Notified Body: 1454**
7. Declared performance/s:

Essential Characteristics	Performance		Testing standards
Compressive stress	σ_{10} (kPa)	80	EN 13163 EN 826 EN 12089 EN 12090 EN 1607 EN 12667 or EN 12939 EN 16036 EN 1602 EN 13163 EN 13501
Bending resistance	σ_b (kPa)	125	
Shear stress	τ (kPa)	60	
Tensile strength	σ_{mt} (kPa)	200	
Thermal conductivity	λ_D (W/mK)	0.031	
Thermal resistance	R (m ² K/W)	Table1	
Dimensional stability	DS(N)%	≤0.5%	
Density	ρ (kg/m ³)	≥16	
Water vapour diffusion resistance μ		20 - 40	
Reaction to fire		E	
Hazardous substances release	npd		



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TABLE 1

Thickness	Thermal resistance R (m ² K/W)	Thickness	Thermal resistance R (m ² K/W)
20mm	0,65	80mm	2,58
30mm	0,97	100mm	3,22
40mm	1,29	120mm	3,87
50mm	1,61	140mm	4,52
60mm	1,93	150mm	4,84
70mm	2,25	200mm	6,45

7. Appropriate technical documentation and/or specific technical documentation: **The technical requirements and the performance of the products are documented in products' Technical Documentation and in the Company's Technical Brochures.**

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Despoina Germanidou, Products Certification Manager

Amigdaleonas, Kavala,

25-10-2022