

Declaration of Performance



No. 09_19_V1



styropan
GRAPHITE

1. Unique identification code of the product type: **Styropan Graphite EPS 80**
2. Intended use: **Thermal insulation for buildings. Also, suitable for use in External Thermal Insulation Composite Systems (ETICS)**
3. Manufacturer: **Styropan I. Katsaounidis & CO SA | GR-57011, Thessaloniki, Greece**
4. Authorised representative: -
5. System of assessment and verification of constancy of performance (AVCP): **System 1**
6. Harmonised standard: **EN13163:2012+A1:2015 & ETAG-004**
Notified bodies: **NB 2423 | NB 1434, 1486**
7. Declared performance:



Certificate No.: **THERM9921/1**
Certificate date: **25/04/2019**

Essential characteristics	Performance		Standard
Thermal conductivity λ_D	$\lambda_D = 0,031 \text{ W/(m}\cdot\text{K)}$		EN 12667:2001
Thermal resistance R_D	* table 1		EN 12667:2001
Dimensional stability	DS(N)2-DS(70,90)1	1%	EN 1604:2013
Compression stress at 10% deformation	CS(10)80	$\sigma_{10} \geq 80 \text{ kPa}$	EN 826:2013
Bending strength	BS125	$\sigma_b \geq 125 \text{ kPa}$	EN12089:2013
Tensile strength perpendicular to faces	TR150	$\sigma_{mt} \geq 150 \text{ kPa}$	EN1607:2013
Shear strength	SS60	-	EN12090:2013
Shear modulus	GM1,648	-	EN12090:2013
Long-term water absorption by partial immersion	WL(P)0,10	-	EN12087:2013
Long-term water absorption by total immersion	WL(T)2,5	-	EN12087:2013
Water vapour diffusion resistance factor $\mu [1]$	20	tabulated acc. to EN 13163/Annex F	EN12086:2013
Reaction to fire	E	-	EN13501-1:2007+A1:2009

* table 1

Thermal resistance	d (mm)	20	30	40	50	60	70	80	100	120	150
	$R_D \text{ (m}^2\cdot\text{K/W)}$		0,60	0,95	1,25	1,60	1,90	2,25	2,55	3,20	3,85

Properties not claimed or declared, shall be considered as No Performance Determined (NPD)

8. Appropriate Technical Documentation and/or Specific Technical Documentation: -

The performance of the product identified above is in conformity with the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No 305/211 under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by
Konstantinos Katsaounidis | General Manager

Thessaloniki, 25/04/2019

