

Great Quality Material means great resistance to the outdoors.

Technical Properties

| SPECIFICATION | | RESULT | UNIT | TEST METHODS |
|----------------------------------|------------------|--------------------------|--------------------|----------------------------------|
| Flexural E-modulus | Ef | 8900 | MPa | DIN EN ISO 178 |
| Flexural strength | σ_{fm} | 76,9 | MPa | DIN EN ISO 178 |
| Breaking elongation | ϵ_{fm} | 1,01 | % | DIN EN ISO 178 |
| Electrostatic Conductivity | | $> 1 \times 10^{12}$ | Ω | EN61340-5-1 DIN IEC 61340-4-1 |
| Diffusion resistance coefficient | μ | 1807 | | DIN EN ISO 12572 |
| Density | | 1,71 | g/cm ³ | ISO 1183 |
| Heat conductance | λ_{10tr} | 0,636 | W/mK | DIN EN 12664 |
| Resistance to thermal expansion | R | 0,048 | m ² K/W | DIN EN 12664 |
| Thermal expansion coefficient | α | 0,048 | mm/mK | prEN 14581 |
| Linear expansion coefficient | | max. 48×10^{-6} | m/°C | |
| Tensile resistance | σ_{fm} | 32,7 | MPa | DIN EN 527 |
| Water absorption | | < 0,1 | % | DIN EN 438 – part 12 |
| SBI fire performance | | B - s1 - d0 | | DIN 13501 |

*applicable to HI-MACS® FR S728 Alpine White, tested with subconstruction and insulation

Fire performance

| PRODUCT CONCERNED | TEST METHOD | RESULTS |
|--------------------|--------------------------|---------------|
| HI-MACS® FR - 12mm | DIN EN 13501-1, SBI | B-s1-d0 |
| HI-MACS® FR - 12mm | NF P92-501:1995 | M1 |
| HI-MACS® FR - 12mm | DIN 4102-1 EN 13501-1 | B1 B-s1-d0 |

HI-MACS Exteria® Certificates



HI-MACS® by LG Hausys has obtained the French QB certification and CSTB ATec "Avis Technique" for facade applications in S828 Alpine White.
(Avis Technique 2.2/18-1795_V1).

Fixed with KEIL inserts and a BWM structure, HI-MACS® façade in S728 – Alpine White successfully passed the ETA tests (European Technical Agreement).