

SIREX® PUR-FOAM

| Property | Method | Unit | Standard | Standard | Railway/public* | Marine** |
|---|----------------------------------|-------------------|--------------------|----------------------|--------------------|--------------------|
| | | | Value | | | |
| Foam density | ASTM C 278 | kg/m ³ | 160 | 250 | 160 | 160 |
| Tensile strength | ASTM C 297 | MPa | 3,7 | 5,2 | 3,6 | 160 |
| Compressive strength | ASTM D 1621 | MPa | 3,5 | 5,25 | 3,2 | 3,5 |
| Compressive modulus | ASTM D 1621 | MPa | 137 | 203 | 133 | 3 |
| Flexural resistance | ASTM D 790 | MPa | 4,8 | 7 | 4,4 | 134 |
| Flexural modulus | ASTM D 790 | MPa | 173 | 267 | 156 | 4,6 |
| Shear strength (50% mm flex) | ISO 1922 | MPa | 2,7 | 3,18 | 1,8 | 171 |
| Shear modulus | | MPa | 14,8 | 23,1 | 13,7 | 2 |
| Water absorption | UNI 10444 | | 0,1% | 0,1% | 0,1% | 14,5% |
| Linear therm. exp. coef. | EN 103 | cm/°C | 8*10 ⁻⁵ | 6,5*10 ⁻⁵ | 9*10 ⁻⁵ | 0,1 |
| Thermal conductivity | ISO 8301 | W/mK | 0,041 | 0,45 | 0,04 | 9*10 ⁻⁵ |
| Fire testing UNI 9174 / UNI 8457 IMO RES A 653 (16) | DIN 4102 MSC 61 (67) | | B3 | B3 | Cl 1 | - Pass |
| Smoke toxicity/composition IMO RES A 653 (16) | AFNOR NF F 16-101 MSC 61 (67) | | | | F1 | Pass |
| Measure of calorific power | MSC 61 (67) | | | | - | Pass |

* Coupled 2 faces Aluminium - certified European Railway

** Coupled 2 faces Aluminium - marine certified Module B - steering-wheel

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