

## SILPHON®FIBER L / Dens 20

**SILPHON®FIBER L** is a thermally insulating material and a sound absorber made of 100% polyester fiber thermobonded (Polyethylene terephthalate - Co-Polymer Polyethylene terephthalate) specifically designed for use in the railway sector.

The characteristic of thermobonding is the complete recyclability of the product and of its clippings; for this reason it can be considered to all effects 100% recyclable.

Not fraying and does not disperse into the environment powders, particles or fibrils potentially harmful to man: the average diameter of its fibers is 20,9 [µm].

**SILPHON®FIBER L** is designed for the insulation of railway rolling stock and has been tested according to ST 306476 EXP 05.

The thermal conductivity of **SILPHON®FIBER L** for density 20 Kg/m3 is " $\lambda$ "= 0,0370 [W/m°K].

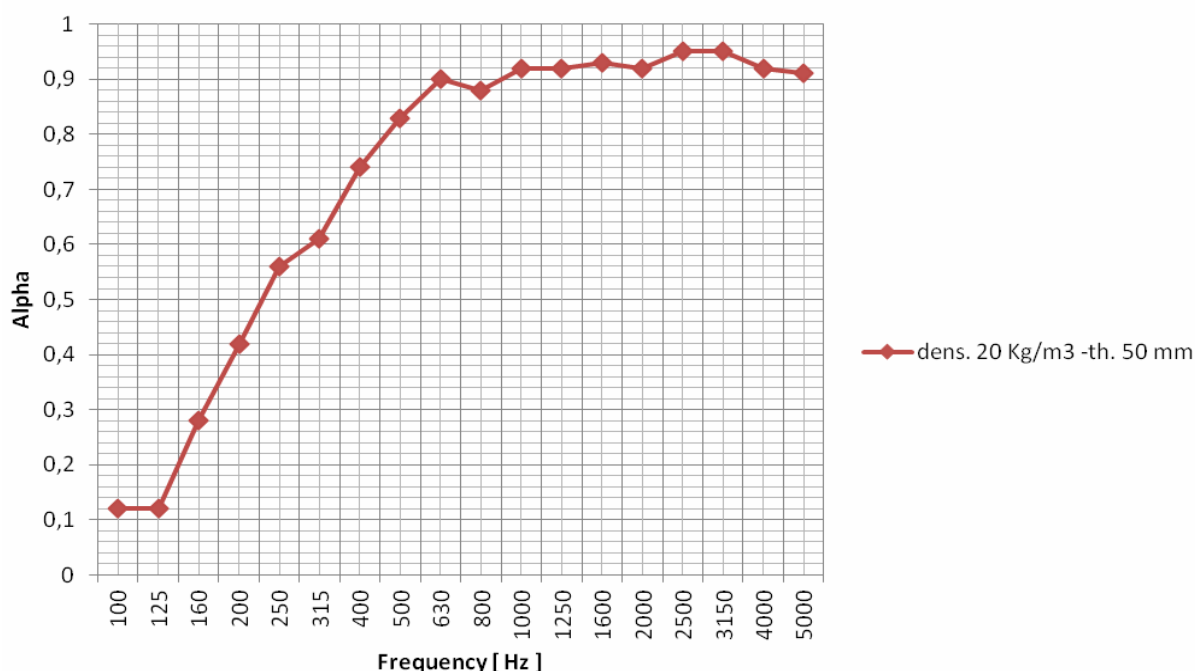
The sound absorption coefficient for **SILPHON®FIBER L** density 20 kg/m3 and thickness 50 mm is exposed to third-octave band in the graph below.

The fire reaction class is CL1A according to UNI CEI 11170-3 while the smoke class is F1 according to AFNOR NF F 16-101 even at 40 kg/m3.

**SILPHON®FIBER L** is also certified according to CEN TS 45545-2 for densities 10-40 Kg/m3 and for thicknesses from 10 to 120 mm.

Density	Material in rolls	Material in sheets
20 Kg/m3	Thickness 20-30-40 mm +/- 5mm Roll width: 1000 mm +/-5mm	Thickness: from 25 to 100 mm +/-5mm Standard panel size: 2800 x 1200 mm

### Acoustic absorption SILPHON®FIBER L



Die Angaben erfolgen nach bestem Wissen und technischen Kenntnissen. Vorbehalten bleiben Änderungen.