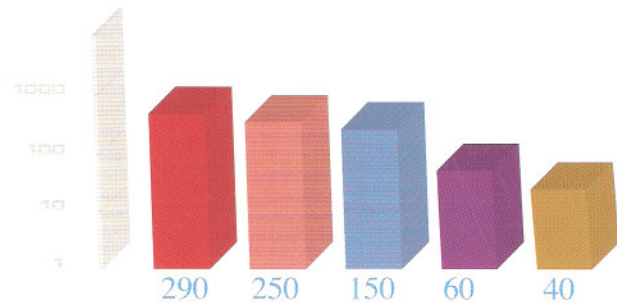


## Strength

The strength of pultruded fiberglass profiles achieves the strength of structural steels and shows much better strength characteristics than e.g. PVC. The abrasive hardness as well as the tension strength is several times higher than for PVC.

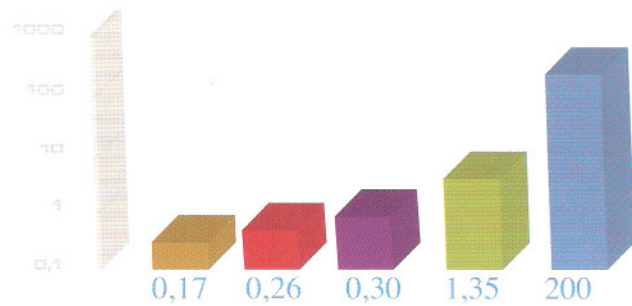
Lineal strength (MPa)



## Thermal conductivity

Fiberglass combines the high strength with very low level of thermal conductivity that is much lower than for aluminium. A considerable advantage is that fiberglass window profiles need not to be reinforced by metal that would behave as a „cold bridge“ in such combination. Moreover it is electrically nonconductive.

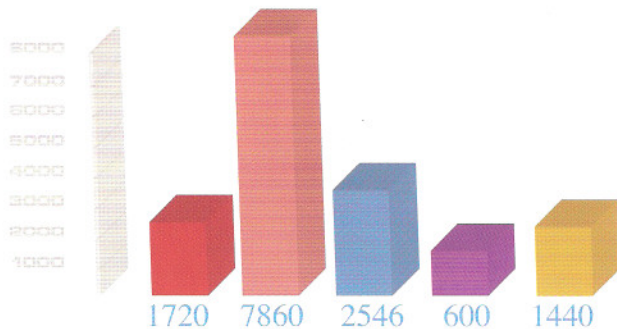
Conductivity (W/m.K)



## Density

Fiberglass density is approximately 4 or 5-times lower than steel density and 1.5-times lower than aluminium density which facilitates work when handling finished products. Moreover the window loading by deadweight of the frame is negligible.

Mass (Kg m<sup>3</sup>)



## Thermal expansion

Fiberglass ranks among materials most resistant to temperature fluctuation. Thanks to this property it provides the basis for a series of products and simultaneously warrants extraordinary strength. They can resist arctic frost as well as desert heat.



Expansion / Contraction comparison ( $\times 10^{-5}/K$ )

