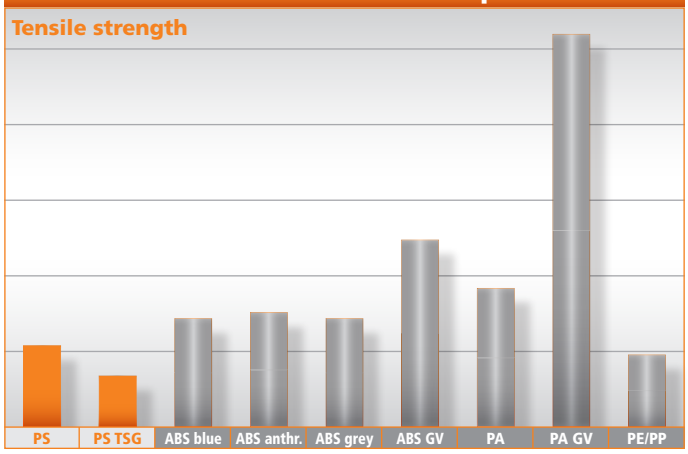
HÄFNER – a standard for quality and precision

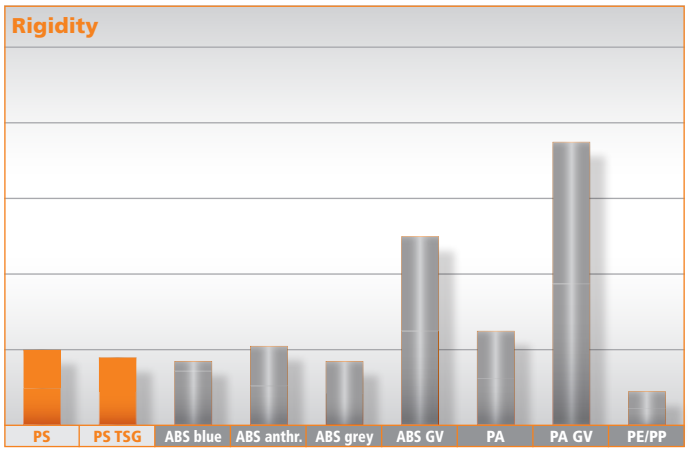
Polystyrene (PS)

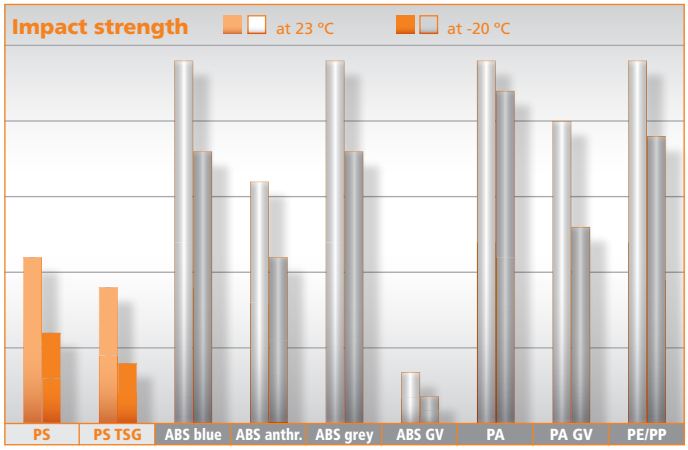
Material Data Sheet

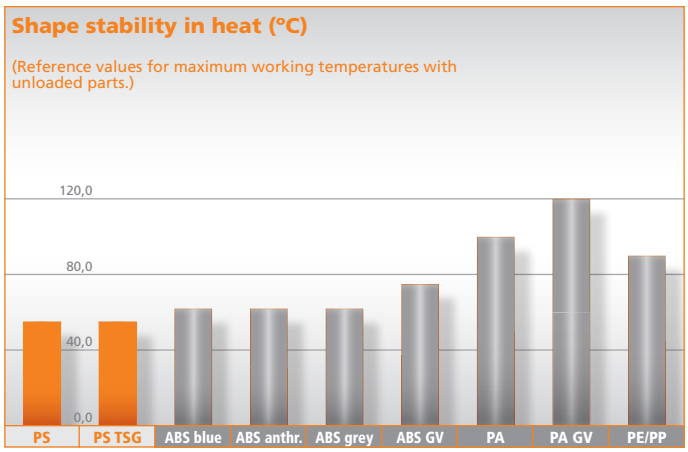
HÄFNER

Different characteristics in comparison:









Abbreviation:

PS = High impact resistant Polystyrene
PS TSG = High impact resistant expanded Polystyrene
PS GV = Glassfibre reinforced Polystyrene

Colours:

Basic colours: anthracite, green
Colour option: Blue, red, black, yellow, orange, green and white
Other cover colours available on request.

Physical characteristics:

Low absorption of water, moderate heat resistance, high dimensional accuracy. Tends to electrostatic charge.

Texture: amorphous

Density:

PS = 1,03 - 1,06 g/ cm^3
PS TSG = 0,60 - 0,95 g/ cm^3
PS GV = 1,15 - 1,35 g/ cm^3

Coefficent of thermal expansion:

8 - 10 * 1/ K * 10^{-5}

Absorption of water:

< 0,1 %

Chemical resistance:

Resistant:

e. g. against water, alkali, mineral acids and most salts.

Not resistant:

e. g. against aromatic and chloride hydro carbons, petroleum, ether, ester etc.

Environmental stress cracking:

Danger of tension cracks by simultaneous influence of specific chemicals and tensions, environmental stress cracking can take place. Especially with aromatic hydro carbons.
If in doubt, please ask us.

Gluing:

Gluing with solvent based products is possible without problems.