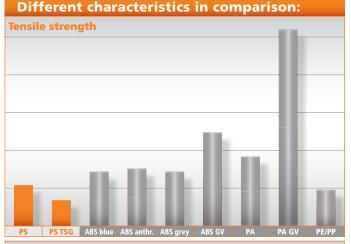
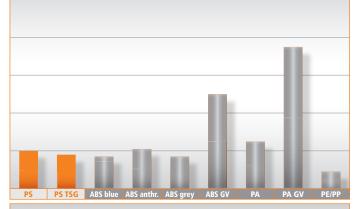
Polystyrene (PS)

Material Data Sheet



Rigidity

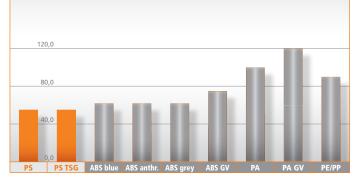


Impact strength at 23 °C at -20 °C



PS TSG

(Reference values for maximum working temperatures with unloaded parts.)







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/ cm³ PS TSG = 0,60 - 0,95 g/ cm³ PS GV = 1,15 - 1,35 g/ cm³

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 <u>simultaneous</u> 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.

All data as compiled in this data sheet is based on our suppliers data and our own experiences. The given indications and data do not constitute any guarantee for the condition and quality of the raw materials and / or the products produced from that. 04/2010