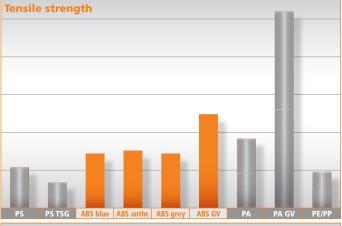
Acrylonitrile-Butadiene-Styrene (ABS)

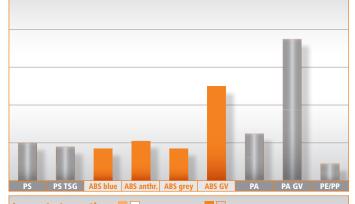
Material Data Sheet

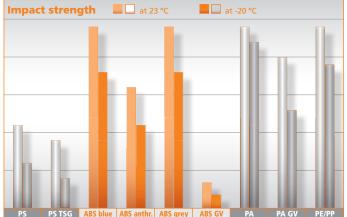






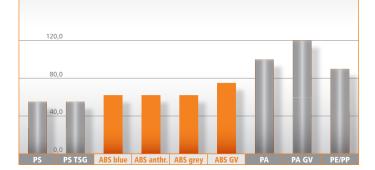
Rigidity





Shape stability in heat (°C)

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



Abbreviation:

ABS = Acrylonitrile-Butadiene-Styrene ABS GV = Glassfibre reinforced ABS

TÜV

Colours:

Basic colours: anthracite Colour option: grey, blue Other cover colours available on request.

Remark:

 ABS grey, blue = impact stength better than ABS anthracite
ABS anthracite = less expensive than ABS grey
ABS GV = due to the glassfibre reinforcement harder and more rigid than ABS grey
▷ Physical characteristics: Low absorption of water, moderate heat

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

Texture:

amorphous

Density:

ABS = 1,04 - 1,08 g/ cm³ **ABS GV** = 1,20 - 1,40 g/ cm³

Coefficent of thermal expansion: ABS = 8 - 10 * 1/ K * 10⁻⁵ ABS GV = 4 - 5 * 1/ K * 10⁻⁵

Absorption of water: ca. 0,4 %

Chemical resistance:

Limited resistance against oils and aromatic hydro carbons (however far better than Polystyrene).

Resistant:

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

Not resistant:

e. g. against concentrated acids, ether, benzine, aceton, ethylbenzol, ethylchlorid, anilin

Environmental stress cracking:

By <u>simultaneous</u> influence of specific chemicals and pressure, environmental stress cracking could take place. If in doubt, please contact us.

Gluing:

Gluing with solvent based products is possible.

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