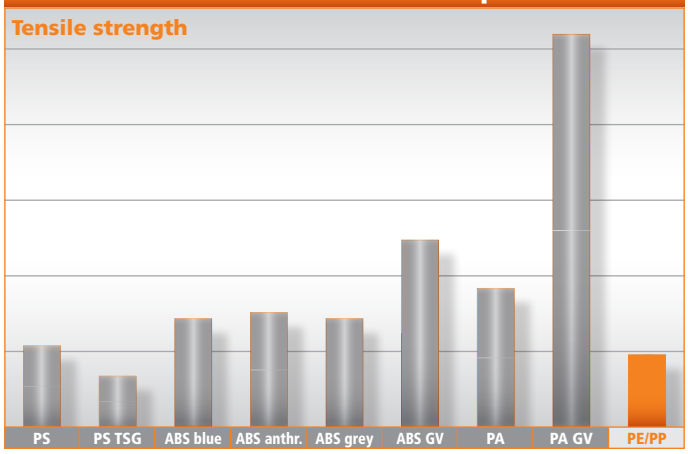
HÄFNER – a standard for quality and precision

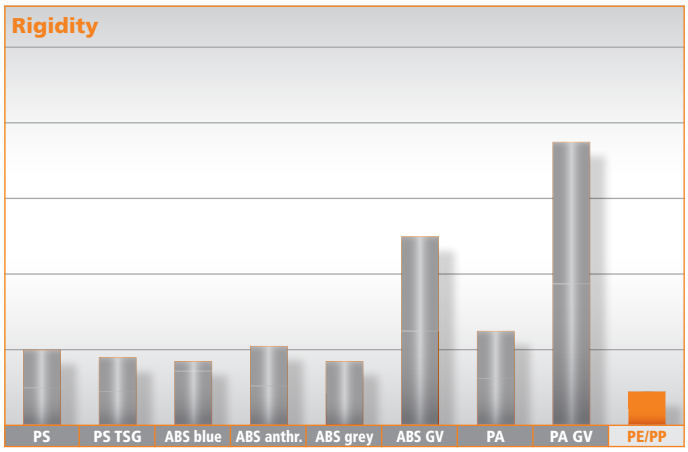
Polyethylene | Polypropylene (PE|PP)

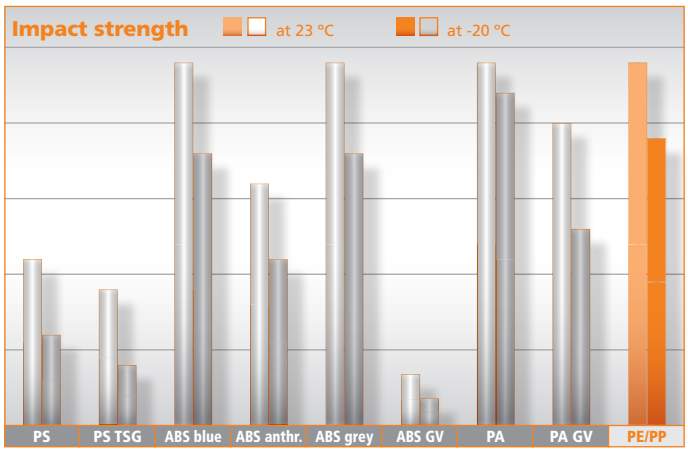
Material Data Sheet

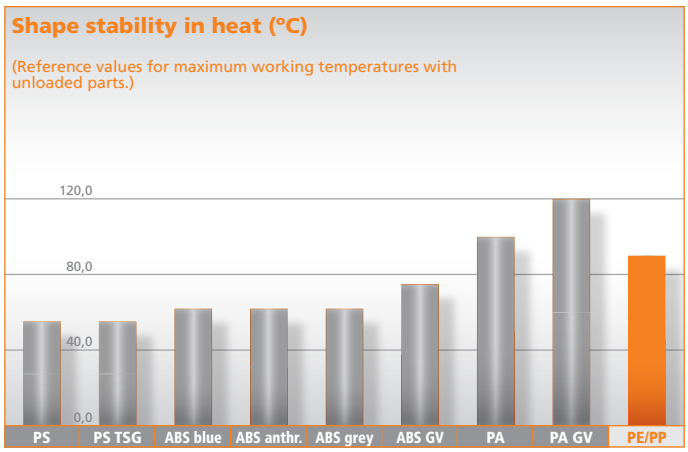
HÄFNER

Different characteristics in comparison:









Abbreviation:

PE = Polyethylene
PP = Polypropylene

Colours:

Basic colours: anthracite, natural (milky)
Other cover colours available on request.

Physical characteristics:

PE: Low absorption of water, impact-resistant, nonbreakable, pliant to soft
PP: higher hardness and rigidity than PE, hard to break

Texture:

semi-crystalline

Density:

PE = 0,91 - 0,96 g/ cm^3
PP = 0,89 - 0,91 g/ cm^3

Coefficent of thermal expansion:

15 * 1/ K * 10^{-5}

Absorption of water:

< 0,1 %

Chemical resistance:

PE and **PP** will not be attacked by most chemicals of different types.

Environmental stress cracking:

Although a good chemical resistance exists, polyethylene parts tend to lead to environmental stress cracking under simultaneous influence of specific chemicals and tension.

Gluing:

A good adhesion of these parts is not possible.