

Material Characteristics

Material	Designation	Hardness
LLD-PE	Linear Low Density Polyethylene	soft / elastic / tension-free
LD-PE	Low Density Polyethylene	soft / elastic
HD-PE	High Density Polyethylene	hard / elastic
EVA	Ethylene vinyl acetate	very soft / elastic
PHT	Thermoplastic polyester elastomer	soft / elastic
TPE	Thermoplastic polyester elastomer	extremely soft / elastic
SI	Silicone	extremely soft / elastic
PP	Polypropylene	hard / stiff
PA 6	Polyamide 6	hard / tough
PA 6 GF 30	Polyamide 6 glass fibre reinforced	hard
PA 6.6	Polyamide 6.6	hard / tough
PA 6.6 GF 35	Polyamide 6.6 glass fibre reinforced	very hard

CAPTOP®, DURASAFE® and QUICKFIT® Plastic Parts are predominantly manufactured from polyethylene (LD-PE, HD-PE), polypropylene (PP) and nylon (PA6). This involves the use of carbon and hydrogen. These plastic parts are completely recyclable. Please refer to the individual product descriptions in this catalogue for further properties. For special requirements of a mechanical, thermal or chemical nature, we can also manufacture in a wide choice of other materials. Please contact us with further details of your specific needs.

Chemical Resistance

Material	● resistant ■ non-resistant							
	Weak acids	Weak alkalis	Alcohol	Solvents	Fuels	Mineral oils	Greases	Water, hot
LLD-PE	●	●	●	■	■	■	●	●
LD-PE	●	●	●	■	■	■	●	●
HD-PE	●	●	●	■	■	●	●	●
EVA	■	■	●	■	■	■	●	●
PHT	■	■	●	■	●	●	●	■
TPE	●	●	●	■	■	■	■	■
SI	■	■	●	■	■	■	■	■
PP	●	●	●	■	■	●	●	●
PA 6	■	●	●	●	●	●	●	■
PA 6 GF 30	■	●	●	●	●	●	●	■
PA 6.6	●	●	●	●	●	●	●	■
PA 6.6 GF 35	■	●	●	●	●	●	●	■

Physical Characteristics

Material	Temperature resistance		Transparency			General Tolerances	
	Intermittent	Continuous	Translucent	Transparent	Opaque	DIN 16901 or DIN 16742	DIN 3302-1 or DIN 16742
LLD-PE	90	70	●	●	●	●	
LD-PE	80	60	●	●	●	●	
HD-PE	100	80	●	●	●	●	
EVA	60	40		●	●	●	
PHT	180	120			●	●	
TPE	150	120			●		●
SI	250	170		●			●
PP	130	100				●	
PA 6	150	90				●	
PA 6 GF30	200	110				●	
PA 6.6	170	90				●	
PA 6.6 GF 35	220	110				●	

Standard Colour Options

Colour	Remark	Colour code
sulphur yellow	Colour to DIN 4818 Standard	RAL 1016
orange	Colour to DIN 4818 Standard	RAL 2004
red	Colour to DIN 4818 Standard	RAL 3000
blue	Colour to DIN 4818 Standard	RAL 5012
green	Colour to DIN 4818 Standard	RAL 6018
dark grey	Colour to DIN 4818 Standard	RAL 7001
light grey	Colour to DIN 4818 Standard	RAL 7035
brown	Colour to DIN 4818 Standard	RAL 8007
white	Colour to DIN 4818 Standard	RAL 9010
black	Colour to DIN 4818 Standard	RAL 9005

CAPTOP®, DURASAFE® and QUICKFIT® Plastic Parts are manufactured in a range of standard colours corresponding to the individual product descriptions in this catalogue. In addition, further colours are available for special production runs at an additional cost. Variations in standard colours may occur occasionally. This is unavoidable due to differences in both pigments and raw plastic material properties. For additional colours, please contact us with your specific needs.

Tolerances

The table values indicated above are theoretical averages which may vary with tolerances in the production process in accordance with DIN 16901. General dimensional tolerances are: +/- 2% and do not exceed +/- 1.0mm.