

# Materials and Applications

## Material Characteristics\*

Type of plastic	Designation	Hardness
PE-LD	Polyethylene, Low Density	soft / elastic
PE-HD	Polyethylene, High Density	hard / elastic
PE-LLD	Polyethylene, Linear Low Density	soft / elastic
EVA	Ethylene-vinyl acetate	very soft / elastic
PHT	Thermoplastic polyester elastomer	soft / elastic
TPE	Thermoplastic polyolefin elastomer	extremely soft / elastic
SI	Silicone	extremely soft / elastic
PP	Polypropylene	hard / tough
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
PCR-PE	Post consumer recycle, Polyethylene	soft / elastic
PET (Thermoforming grade)	Polyethylene terephthalate	hard / tough
PS (Thermoforming grade)	Polystyrene	hard / stiff

KAPSTO® plastic protective solutions are primarily made from Polyethylene (PE-LD, PE-HD) and polypropylene (PP). These are hydrocarbon compounds. They are recyclable, ground water neutral, and suitable for thermal use. For details, please see the product descriptions in this catalogue. Other materials are available for special mechanical, thermal, or chemical loads. We will be happy to advise you.

## Chemical Resistance\*

Type of plastic	Weak acids	Weak alkalis	Alcohol	Solvents	Fuels	Mineral oils	Grease/oils	Water, hot
	●	●	●	■	■	■	●	●
PE-LD	●	●	●	■	■	■	●	●
PE-HD	●	●	●	■	■	●	●	●
PE-LLD	●	●	●	■	■	■	●	●
EVA	■	■	●	■	■	■	●	●
PHT	■	■	●	■	●	●	●	■
TPE	●	●	●	■	■	■	■	●
SI	■	■	●	■	■	■	■	■
PP	●	●	●	■	■	●	●	●
PA 6	■	●	●	●	●	●	●	■
PA 6 GF 30	■	●	●	●	●	●	●	■
PA 6.6	●	●	●	●	●	●	●	■
PA 6.6 GF 35	■	●	●	●	●	●	●	■
PCR-PE	●	●	●	■	■	■	●	●
PET (Thermoforming grade)	■	■	●	■	●	●	●	■
PS (Thermoforming grade)	■	●	●	■	■	■	●	●

● Resistant ■ Conditionally resistant

## Special Colours\*

Colour	Note	Designation
Sulphur yellow	Signal colour	RAL 1016
Pure orange	Signal colour	RAL 2004
Fire red	Signal colour	RAL 3000
Light blue		RAL 5012
Emerald green	Signal colour	RAL 6001
Squirrel grey		RAL 7000
Blue grey		RAL 7031
Fawn brown		RAL 8007
Pure white		RAL 9010
Jet black		RAL 9005
Recycling blue		

We manufacture our range of serial KAPSTO® plastic protective solutions in the specific standard colour listed in the respective product descriptions within this catalogue. Custom-made products can also be made in a range of other colours at an additional cost. There may be colour deviations for technical reasons. Deviations attributable to colour pigments or to the plastic raw materials are unavoidable. Please contact us if your desired colour is not listed.

## Physical properties\*

Type of plastic	Temperature resistance			Light transmittance			Dimensional tolerance	
	Short-time	Continuous	Continuous	Clear	Transparent	Opaque	DIN 16901 or DIN 16742	DIN ISO 3302-1 or DIN 16742
PE-LD	80 °C	60 °C	-40 °C	●	●	●	●	
PE-HD	100 °C	80 °C	-40 °C	●	●	●	●	
PE-LLD	90 °C	70 °C	-40 °C	●	●	●	●	
EVA	60 °C	40 °C	-40 °C		●	●	●	
PHT	180 °C	120 °C	-40 °C			●	●	
TPE	150 °C	120 °C	-50 °C			●		●
SI	250 °C	170 °C	-50 °C		●			●
PP	130 °C	100 °C	-20 °C			●	●	
PA 6	150 °C	90 °C	-20 °C			●	●	
PA 6 GF 30	200 °C	110 °C	-20 °C			●	●	
PA 6.6	170 °C	90 °C	-20 °C			●	●	
PA 6.6 GF 35	220 °C	110 °C	-20 °C			●	●	
PCR-PE	80 °C	60 °C	-40 °C				●	
PET (Thermoforming grade)	60 °C	40 °C	-20 °C		●			
PS (Thermoforming grade)	80 °C	50 °C	-10 °C		●			

Dimensions in brackets represent technical reference dimensions and are not subject to general tolerance.

### \*Note:

KAPSTO® plastic protective solutions protect your component from damage and soiling during transport, storage and production process. The illustrated applications are examples for intended use.

The specific application of the KAPSTO® protective solutions is at the discretion of the customer. Due to a large number of possible influences during processing, use and application of our products, we recommend that the customer determines the suitability for his own intended purpose by performing tests and experiments. **We will be pleased to send you free samples for your tests.**

The product and material information included in this catalogue are based on generally available information provided, for instance, by the raw material suppliers. This information does not take into account the different effects on our product that may occur under the actual use intended by the customer. The information provided does not constitute any promise of quality or durability, guaranteed properties or quality agreements. The purchaser or user is not exempt from the duty of carrying out his own tests and trials to ensure that the product is suitable for the specific use intended by him. Occasional small black dots are possible due to the production process and correspond to the state of the art.

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