

Materials and Applications

Material Characteristics*

Type of plastic	Designation	Hardness
PE-LD	Polyethylene, Low Density	soft / elastic
PCR-PE	Post Consumer Rezyklat, Polyethylene	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 / TPC-ET	Thermoplastic polyester elastomer	soft / elastic
TPE	Thermoplastic polyolefin elastomer	extremely soft / elastic
SI	Silicone	extremely soft / elastic
PP	Polypropylene	hard / tough
PCR-PP	Ppost-consumer recycled material, 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
PET	Polyethylene terephthalate	hard / tough
PS	Polystyrene	hard / tough

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
EVA	●	●	■	●	●	●	■	■
PE-HD	■	■	■	●	●	■	■	■
PE-LD	■	■	■	●	●	●	■	■
PE-LLD	■	■	■	●	●	●	■	■
PA 6	●	■	■	■	■	■	■	●
PA 6 GF 30	●	■	■	■	■	■	■	●
PA 6.6	■	■	■	■	■	■	■	●
PA 6.6 GF 35	●	■	■	■	■	■	■	●
PCR-PE	■	■	■	●	●	●	■	■
PCR-PP	■	■	■	●	●	■	■	■
PET	●	●	■	●	■	■	■	●
PP	■	■	■	●	●	■	■	■
PS	●	■	■	●	●	●	■	■
SI	●	●	■	●	●	●	●	●
PHT / TPC-ET	●	●	■	●	■	■	■	●
TPE	■	■	■	●	●	●	●	■

● resistant ■ conditionally resistant

Special Colours*

Colour	Note	Designation
sulphur yellow	Signal colour	RAL 1016
pure orange	Signal colour	RAL 2004
flame red	Signal colour	RAL 3000
blue-purple		RAL 4005
telemagenta		RAL 4010
recycling blue / traffic blue		RAL 5017
turquoise blue		RAL 5018
leaf green		RAL 6002
feh grey		RAL 7000
fawn		RAL 8007
deep black		RAL 9005
pure white		RAL 9010

KAPSTO® Kunststoff-Schutzelemente stellen wir serienmäßig in bestimmten Standardfarben her, die Sie den jeweiligen Produktbeschreibungen in diesem Katalog entnehmen können. Zusätzlich stehen für Sonderanfertigungen gegen Aufpreis weitere Farben zur Auswahl. Technisch bedingte Farbabweichungen müssen wir uns vorbehalten. Diese Unterschiede sind sowohl durch die Farbpigmente als auch durch die Kunststoff-Rohstoffe unvermeidbar. Nicht aufgeführte Farben auf Anfrage.

Physical properties*

Type of plastic	Temperature resistance			Light transmittance			Dimensional tolerance	
	Short-time	Continuous	Continuous	Clear	Transparent	Opaque	DIN 16901, DIN 16742, DIN ISO 20457	DIN ISO 3302-1, DIN 16742, DIN ISO 20457
PE-LD	+ 80 °C	+ 60 °C	- 40 °C	●		●	●	
PCR-PE	+ 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 / TPC-ET	+ 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			●	●	
PCR-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			●	●	
PET	+ 60 °C	+ 40 °C	- 20 °C		●		●	
PS	+ 80 °C	+ 50 °C	- 10 °C		●		●	

*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.**

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