











Technical plastics

Plastic table about technical plastics

General information	PEHD 300	PEHD 500	PEHD 1000	PEHD 2000	POM-C	PA/Nylon	PET	PVDF	PEEK	PTFE/Teflon	ABS	PP	
Name	Polyethylene	Polyethylene	Polyethylene	Polyethylene	Polyoxymethylene copolymer	Polyamide	Polyethylene terephthalate	Polyvinyliden flourid	Polyethere therketone	Polytetraflor ethylene	Akrylonitrile butadiene styrene	Polypropylene	
Brand name	PEHD 300	PE 500	PE 1000	PE 2000	TECAFORM AH	TECAMID/TECAST	TECAPET	TECAFLON PVDF	TECAPEEK	PTFE	TECARAN ABS	TECAPRO MT	
Density	0.95 g/cm ³	0.95 g/cm ³	0.93 g/cm ³	0.94 g/cm ³	1.41 g/cm ³	1.15 g/cm ³	1.36 g/cm ³	1.78 g/cm ³	1.31 g/cm ³	2.18 g/cm ³	1.05 g/cm ³	0.92 g/cm ³	
Temp. min.	- 50 °C	- 100 °C	- 200 °C	- 200 °C	- 50 °C	- 40 °C	- 20 °C	- 30 °C	- 40 °C	- 200 °C	- 10 °C	- 10 °C	
Temp. max.	80 °C	80 °C	80 °C	80 °C	100 °C	100 °C	110 °C	150 °C	260 °C	260 °C	75 °C	100 °C	
Temp. melting point	130 °C	135 °C	135 °C	135 °C	166 °C	221 °C	244 °C	171 °C	341 °C	-	102 °C	165 °C	
Moisture absorption	Low	Low	Low	Low	Low	High	Very low	Very low	Very low	Very low	Average	Very low	
Thermal expansion*	High	High	High	High	High	High	Average	High	Low	High	Average	High	
Friction	Average	Low	Very low	Extremely low	Low	Very low	Low	Low	Low	Extremely low	High	Low	
Wear by water and sand	Poor	Good	Excellent	Excellent	Poor	Excellent	Average	Average	Average	Good	Poor	Average	
Wear by pressure	Poor	Average	Good	Good	Good	Good	Good	Average	Excellent	Poor	Poor	Good	
Chemical resistance	Good	Good	Good	Good	Good	Good	Good	Excellent	Good	Excellent	Poor	Excellent	
Rigidity (E module)	Rigid	Average	Soft	Soft	Very rigid	Rigid	Very rigid	Average	Very rigid	Extremely soft	Rigid	Extremely soft	
Electrical insulation	Average	Average	Average	Average	Good	Good	Good	Good	Excellent	Excellent	Average	Average	
Colours/standard	Nature/black	Nature/black	Nature/black	Nature/black	Nature/black	Nature/black	White	Nature	Light brown	White	Black	Creme	
Colours/optional									Not possible	Few	Not possible		
Antibacterial	Not possible	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Not possible	Optional	
FCM: FDA & EU 10/2011	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Not possible	Optional	
Flammability (UL94)	Optional	Optional	Optional	Optional	HB**	HB**	HB**	VO***	VO***	VO***	HB**	HB**	
Antistatic/AS	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Not possible	Optional	
UV resistance	Only black	Only black	Only black	Only black	Only black	Only black	Only black	Standard	Only black	Standard	Not possible	Only black	

Processing methods	PEHD 300	PEHD 500	PEHD 1000	PEHD 2000	POM-C	PA/Nylon	PET	PVDF	PEEK	PTFE/Teflon	ABS	PP
Machining	Good	Good	Good	Average	Good	Average	Good	Average	Good	Average	Average	Poor
Cold bending	Good	Average	Poor	Not possible	Poor	Average	Poor	Poor	Not possible	Poor	Average	Good
Heat bending	Good	Poor	Poor	Poor	Average	Average	Average	Poor	Not possible	Not possible	Good	Good
Dimensional stability	Poor	Average	Average	Average	Good	Good	Excellent	Good	Excellent	Poor	Poor	Average

Possible additives	
Carbonfibre	Becomes electrically conductive/antistatic. Strengthen mechanical properties. Prevents cold flow.
Glass	Increases strength. Increases brief service temperatures.
Oil	Reduces friction. Supplies self-lubricating properties. Increases non-stick capability.
Wax	Reduces friction. Supplies self-lubricating properties. Good under high loading.
Teflon	Reduces friction.

* Contact us for exact calculation

** HB = Horizontal burn/drip

*** VO = Vertical burn/do not drip, burn up.

This table is meant as a guide. You are more than welcome to contact us, if you wish specific calculation or advice regarding construction and selection of material.

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