



MONOFILAMENTS PROPERTIES

Polymers Physical properties

	UM	PP	PS	SAN	PET	PBT	PA6	PA6.6	PE
Density	g/cm ³	0,91	1-1,05	1,08	1,25-1,38	1,20-1,30	1,14	1,14	0,92
Elongation	%	8-18	/	/	4	3,5-7	4-5	4,5-5	20
Elongation to breaking point	%	>50	/	/	>50	20->50	20 >50	10-40	>50
Water Absorption	%	<0,2	<0,1	0,2-0,4	0,5	0,5	10	9	<0,5
Max working temperature	°C	90	80	80	120	130	100	140	80
Melting temperature	°C	170	190	160	260-270	250	220-225	255-260	115
Bend Recovery		poor	good	good	good	excellent	excellent	excellent	good
Resistance to abrasion		good	poor	poor	good	excellent	good	good	fair
Combustibility	UL94	HB	HB	HB	HB	HB	HB	HB	HB



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MONOFILAMENTS PROPERTIES

Polymers Chemical properties

	PP	PS	SAN	PET	PBT	PA6	PA6.6	PE
Hot water	good	good	good	good	good	good	good	good
Diluted Acids	excellent	good	good	good	good	fair	fair	excellent
Concentrated Acids	excellent	good/fair	good	good/fair	good/fair	fair	fair	excellent
Diluted Alkalis	excellent	good	excellent/good	excellent/good	excellent/good	excellent	excellent	excellent/good
Alcohol	excellent	poor	good	excellent	excellent	good	good	excellent
Ketones	excellent	poor	poor	excellent	excellent/good	good	good	excellent
Petroleum Distillates	fair	poor	good/fair	excellent	excellent	excellent	excellent	fair
Lubricating Oils	excellent	poor	fair	excellent	excellent	excellent	excellent	excellent
Vegetable Oils	excellent	poor	good	excellent	excellent	good	good	excellent
Trichloroethylene	good/fair	poor	poor	good/fair	good/fair	excellent/good	excellent/good	good/fair