

CHEMICAL RESISTANCE DATA

Chemical	Concentration	Nylon 6	Nylon 66	Nylon 612	PET / PBT	PP
Acetic Acid	100%	Poor	Poor	Poor	Fair	Fair
Acetone	100%	Good	Good	Good	Good	Good
Ammonia Liquid		Good	Good	Good	No	Good
Aniline	100%	Poor	Poor	Poor	Good	Poor
Benzene	100%	Good	Good	Good	Good	No
Bleaching Solutions	Dilute	No	No	No	Good	Good
Caustic Potash	10%	Good	Good	Good	Good	Good
Caustic Potash Con.	50%	Good	Good	Good	Poor	Good
Chlorine Water	Saturated	No	Poor	No	No	Fair
Chloroform	100%	No	No	No	Good	No
Chromic Acid	10%	Poor	Poor	Poor	Good	Good
Citric Acid	10%	Poor	Poor	Poor	Good	Good
Detergent Soaps		Good	Good	Good	Good	Good
Ethanol	96%	Poor	Good	Poor	Good	Good
Ethylacetate	100%	Good	Good	Good	Good	Good
Formic Acid	98%	No	No	No	No	No
Fuel Oil		Good	Good	Good	Good	Poor
Glycerin		Good	Good	Good	Good	Good
Hydrochloric Acid	30%	No	No	No	Poor	Good
Lactic Acid	20%	Poor	Poor	Poor	Good	Good
Methyl Alcohol	100%	Good	Good	Good	Good	Good
Mineral Oil		Good	Good	Good	Good	Good
Nitric Acid	10%	No	No	No	Good	Good
Nitric Acid	50%	No	No	No	Good	Poor
Oleic Acid	100%	Good	Good	Good	Good	Good
Oxalic Acid	10%	No	No	Fair	Good	Fair
Petrol		Good	Good	Good	Good	No
Phosphoric Acid	85%	No	No	No	Good	Good
Sea Water		Good	Good	Good	Good	Good
Sodium Chloride (salt)		Good	Good	Good	Good	Good
Sodium Hydroxide	10%	Good	Good	Good	No	Good
Sodium Hydroxide	50%	Good	Good	Good	No	Good
Sodium Hypochloride	10%	No	No	No	Good	Good
Stearic Acid	100%	Poor	Poor	Poor	Good	Good
Sulfuric Acid	10%	No	No	No	Good	Good
Sulfuric Acid	100%	No	No	No	No	No
Tetrachloroethylene		Good	Good	Poor	No	No
Toluene	100%	Good	Good	Good	Good	No
Trichloroethylene		Good	Good	Poor	No	No
Turpentine	100%	Good	Good	Good	Good	No
Vaseline		Good	Good	Good	Good	Good
Vegetable Oil		Good	Good	Good	Good	Good

The above information is given on the assumption that the temperature of the chemical does not exceed 20 °C.

PROPERTIES OF MONOFILAMENTS

	Unit	Nylon 6	Nylon 66	Nylon 612	PET / PBT	PP
Specific weight	g/cm ³	1.14	1.14	1.06	1.34	0.91
Melting Point	°C	220	255	212	255	168
Maximum working temperature	°C	100-120	100-120	100-120	120	70
Moisture absorption	%	3	2.8	0.25	0.3	0.0
Water absorption	%	9.5	8.5	3	0.5	0.01
Tensile strength dry	N/mm ²	80	8.5	61	55	36
Loss of stiffness (wet)	%	70/80	50/60	30/40	1.2	1.2
Abrasion resistance		Good	Good	Good	Fair	Good
Bend recovery		Good	Good	Good	Fair	Fair
Toxicity		none	none	none	none	none
Swelling in water	%	2	2	2	0	0

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