

# Chemical Resistance Data

Resistance Key: G = Good F = Fair P = Poor N = No

Chemical	Concentration %	Nylon 6	Nylon 66	Polyester PBT	Polypropylene	PVC
Acetic acid	100	P	P	F	F	N
Acetone	100	G	G	G	G	P
Ammonia Liquid		G	G	N	G	G
Aniline	100	P	P	G	P	N
Benzene	100	G	G	G	N	P
Bleaching Solutions Dilute		N	N	G	G	G
Caustic Potash	10	G	G	G	G	G
Caustic Potash	50	G	G	P	G	G
Chlorine Water Saturated		N	P	N	F	N
Chloroform	100	N	N	G	N	P
Chromic Acid	10	P	P	G	G	P
Citric Acid	10	P	P	G	G	F
Detergent-Soaps		G	G	G	G	G
Ethanol	96	P	G	G	G	P
Ethylacetate	100	G	G	G	G	P
Formic Acid	98	N	N	N	N	F
Fuel Oil		G	G	G	P	N
Glycerine		G	G	G	G	G
Hydrochloric Acid	30	N	N	P	G	G
Lactic Acid	20	P	P	G	G	F
Methyl Alcohol	100	G	G	G	G	N
Mineral Oil		G	G	G	G	G
Nitric Acid	10	N	N	G	G	F
Nitric Acid	50	N	N	G	P	F
Oleic Acid	100	G	G	G	G	F
Oxalic Acid	10	N	N	G	F	F
Petrol		G	G	G	N	G
Phosphoric Acid	85	N	N	G	G	G
Sea Water		G	G	G	G	G
Sodium Chloride (salt)		G	G	G	G	G
Sodium Hydroxide	10	G	G	N	G	G
Sodium Hydroxide	50	G	G	N	G	G
Sodium Hypochloride	10	N	N	G	G	G
Stearic Acid	100	P	P	G	G	G
Sulphuric Acid	10	N	N	G	G	G
Sulphuric Acid	100	N	N	N	N	N
Tetrachloroethylene		G	G	N	N	P
Toluene	100	G	G	G	N	N
Trichloroethylene		G	G	N	N	N
Turpentine	100	G	G	G	N	G
Vaseline		G	G	G	G	G
Vegetable Oil		G	G	G	G	G

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

## Properties of Monofilaments

Key: G = Good F = Fair P = Poor

Chemical	Concentration %	Nylon 6	Nylon 66	Polyester PBT	Polypropylene	PVC
Specific gravity		1.14	1.14	1.34	0.91	1.40
Melting point	°C	220	255	255	168	155
Maximum working temp	°C	100-120	100-120	120	70	55
Moisture absorption	%	3	2.8	0.30	0.00	0.00
Water absorption	%	9.5	8.5	0.5	0.01	0.0
Tensile strength dry	N/mm <sup>2</sup>	80	85	36	55	16
Loss of stiffness (wet)	%	70/80	50/60	1.2	1.2	0
Abrasion resistance		G	G	G	F	F
Bend recovery		G	G	F	F	P
Toxicity		none	none	none	none	none
Swelling in water	%	2	2	0	0	0

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Additional information may be available on request.

