

DIA-Nielsen - Chemical Compatibility for Filter Membranes / Housings

Chemicals											
ACIDS	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Acetic, Glacial	C	C	C	C	C	C	ND	C	NC	NC	C
Acetic, 25%	NC	C	C	NC	NC	C	C	C	LC	LC	C
Hydrochloric, concentrated	NC	C	C	NC	NC	C	C	NC	NC	NC	C
Sulfuric, Concentrated	NC	C	NC	NC	NC	C	NC	ND	NC	NC	NC
Sulfuric, 25%	NC	C	C	NC	LC	C	ND	ND	LC	NC	ND
Nitric Concentrated	NC	C	C	NC	NC	C	C	LC	NC	NC	NC
Nitric, 25%	NC	C	C	NC	NC	C	NC	NC	LC	LC	LC
Phosphoric, 25%	NC	C	ND	C	LC	C	ND	C	LC	ND	ND
Formic, 25%	NC	C	ND	LC	C	C	ND	LC	C	LC	C
Trichloroacetic, 10%	NC	C	ND	C	C	C	ND	ND	ND	ND	ND
ALKALIS	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Ammonium Hydroxide, 25%	C	C	LC	C	LC	C	NC	LC	LC	NC	C
Sodium Hydroxide, 3 Normal	C	C	C	NC	LC	C	NC	LC	NC	NC	C
ALCOHOLS	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Methanol, 98%	C	C	C	C	C	C	C	C	NC	NC	C
Ethanol, 98%	C	C	C	C	C	C	C	C	NC	NC	C
Ethanol, 70%	LC	C	C	LC	C	C	C	C	NC	NC	C
Isopropanol, n-Propanol	C	C	C	C	C	C	LC	C	C	C	C
Amyl alcohol, Butanol	C	C	C	C	C	C	ND	C	C	C	C
Benzyl alcohol	C	C	C	LC	C	C	LC	ND	LC	LC	NC
Ethylene glycol	C	C	C	C	C	C	C	C	LC	LC	C
Propylene glycol	C	C	C	LC	C	C	ND	ND	ND	ND	ND
Glycerol	C	C	C	C	C	C	ND	ND	C	ND	ND
HYDROCARBONS	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Hexane, Xylene	C	C	C	C	C	NC	C	C	C	C	C
Toluene, Benzene	C	C	C	C	C	NC	LC	C	C	C	C
Kerosene, Gasoline	C	C	C	C	C	LC	LC	C	C	C	C
Tetralin, Decalin	ND	C	C	C	C	ND	ND	ND	ND	ND	ND
HALOGENATED HYDROCARBONS	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Methylene Chloride	LC	C	C	NC	C	LC	ND	C	ND	LC	NC
Chloroform	C	C	C	NC	C	LC	NC	C	C	C	NC
Trichloroethylene	C	C	C	C	C	LC	ND	C	C	C	NC
Monochlorobenzene, Freon	C	C	C	C	C	C	C	ND	ND	C	C
Carbon Tetrachloride	C	C	C	LC	C	LC	LC	C	C	C	C
KETONES	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Acetone, Cyclohexanone	C	C	NC	NC	C	C	NC	C	NC	NC	NC
Methyl Ethyl Ketone	C	C	LC	LC	C	LC	LC	ND	ND	NC	NC
Isopropylacetone	C	C	NC	C	CN	C	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	C	LC	ND	C	LC	ND	ND	ND	ND	C
ESTERS	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Ethyl Acetate & Methyl Acetate	C	C	C	NC	C	LC	LC	C	NC	NC	NC
Amyl, Propyl, & Butyl Acetate	C	C	ND	LC	C	LC	C	ND	ND	NC	C
Propylene Glycol Acetate	ND	C	ND	NC	C	C	ND	ND	ND	ND	ND
2-Ethoxyethyl Acetate	ND	C	ND	LC	C	ND	ND	ND	ND	ND	ND
Methyl Cellosolve Acetate	ND	C	ND	NC	C	C	ND	ND	ND	ND	ND
Benzyl Benzoate	C	C	ND	C	C	ND	ND	ND	ND	ND	ND
Isopropyl Myristate	C	C	ND	C	C	ND	ND	ND	ND	ND	ND
Tricresyl Phosphate	ND	C	ND	C	C	ND	ND	ND	ND	ND	ND
OXIDES – ETHERS	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Ethyl Ether	C	C	C	C	C	LC	C	C	LC	LC	C
Dioxane & Tetrahydrofuran	C	C	LC	NC	C	C	NC	PET	NC	NC	NC
Dimethylsulfoxide (DMSO)	C	C	NC	NC	C	C	NC	ND	NC	NC	NC
Isopropyl Ether	ND	C	C	C	C	C	C	ND	ND	LC	C
SOLVENTS WITH NITROGEN	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Dimethyl Formamide	LC	C	NC	NC	LC	C	NC	C	NC	NC	NC
Diethylacetamide	C	C	ND	NC	C	ND	ND	ND	ND	ND	ND
Triethanolamine	C	C	ND	C	C	ND	ND	ND	ND	ND	ND
Aniline	ND	C	ND	ND	C	ND	ND	ND	ND	ND	ND
Pyridine	C	C	C	NC	C	LC	NC	ND	NC	NC	NC
MISCELLANEOUS	Nylon (PA)	PTFE	PVDF	CA	RC	PP	PC	PET	CME	CN	PES
Phenol, Aqueous, 10%	ND	C	LC	NC	NC	C	ND	ND	NC	LC	NC
Hydrogen Peroxide, 30%	C	C	ND	C	C	ND	ND	ND	ND	ND	ND
Silicone Oil & Mineral Oil	ND	C	C	C	C	C	C	C	C	C	C

KEY:

C = Compatible, **NC** = Not Compatible, **ND** = No Data Available, **LC** = Limited Compatibility - Membrane Swells and/or Shrinks;

PTFE = Teflon® (Polytetrafluoroethylene)*, **PVDF** = Polyvinylidene fluoride, **PS** = Polyether sulphone, **CA** = cellulose acetate,

RC = Regenerated Cellulose, **PP** = Polypropylene, **PC** = Polycarbonate

CA = Celluloseacetate, **CN** = Cellulosenitrate, **PA** = Polyamide Nylon®, **PET** = Polyester, **CME** = Cellulose Mixed Ester