

# Chemical resistance for Polypropylene

LEGEND: A ... Excellent: no or little adverse effect.

B ... Good: a slight adverse effect but good to use depending on the conditions.

Pass ... Acceptable: Preferably better not for use.

F ... Unacceptable: Not suitable for use because of a serious adverse effect.

Solvent/chemical substance (concentration wt%, temperature °C)	Compati- bility
sulfurous acid (10/RT)	A
hydrochloric acid (10/RT)	A
(20/RT)	A
(20/80)	B
(33/RT)	A
aqua regia	Pass
perchloric acid	Pass
hydrogen peroxide water (3/RT)	A
(30/RT)	A
(30/50)	A
chromic acid (2/70)	B
(5/70)	B
(10/70)	Pass
(25/70)	F
chlorosulfonic acid	F
pickling liquid (nitric acid20%+hydrofluoric acid4%)	A
pickling liquid (sulfuric acid40%+nitric acid15%)	A
hypochlorous acid	A
hydrocyanic acid	A
hydrobromic acid (20/RT)	A
(20/70)	A
(37/RT)	A
nitric acid (10/RT)	A
(10/70)	B
(30/RT)	B
(30/70)	Pass
(61.3/RT)	Pass
(emitting smoke/RT)	F
carbonic acid	B
arsenic acid	A
fluorosilicic acid	A
hydrofluoric acid (10/RT)	A
(20/RT)	A
(40/RT)	A
fluoroboric acid	A
boric acid	A
fluoric acid	A

Solvent/chemical substance (concentration wt%, temperature °C)	Compati- bility
sulfuric acid (10/RT)	A
(10/70)	A
(30/RT)	A
(30/70)	A
(98/RT)	Pass
(emitting smoke/RT)	Pass
phosphoric acid (50/RT)	A
(50/70)	A
(75/RT)	A
ammonia(anhydrous)	A
ammonia water (28/—)	A
liquid ammonia	B
caustic soda (10/RT)	A
(30/RT)	A
(30/70)	A
caustic potash (10/RT)	A
(50/RT)	A
calcium hydroxide	A
calcium hydroxide	A
barium hydroxide	A
magnesium hydroxide	A
butyl acrylate	Pass
acetylene	A
acetamide	B
acetaldehyde	B
acetone	Pass
aniline	Pass
linseed oil	A
amyl alcohol	B
amyl naphthalene	B
benzoic acid (50/RT)	A
isobutyl alcohol	A
isopropyl alcohol	A
isopropyl ether	B
ethanolamine	B
ethyl alcohol	B
ethyl ether	B

Solvent/chemical substance (concentration wt%, temperature °C)	Compati- bility
ethyl cellulose	A
ethylbenzene	Pass
ethylenediamine	B
ethylene chlorohydrin	Pass
ethylene glycol	A
chloroethyl	Pass
methyl chloride	Pass
chlorinated solvent	F
octyl alcohol	A
olive oil	A
oleic acid	B
gasoline (—/RT)	Pass
(—/50)	Pass
formic acid (25/RT)	A
(50/RT)	A
(90/RT)	A
xylene	F
citric acid	A
glycerine	A
cresol	B
chloroacetone	Pass
chlorobenzene	Pass
chloroform	F
kerosene	B
acetic acid (10/RT)	A
(50/RT)	B
(50/70)	Pass
(100/RT)	Pass
amyl acetate	Pass
isopropyl acetate	Pass
ethyl acetate	Pass
butyl acetate	Pass
propyl acetate	Pass
methyl acetate	Pass
salicylic acid	A
diisopropyl keton	Pass
diethyl ether	Pass

Note: The values shown in the chemical resistance table below serve just for reference and it is the user's responsibility to test and check the chemical resistance under the specific test conditions incl. temperature and mixture of such chemical substances. Before using our Watson products, it is strongly recommended to perform a practical testing using a sample to check its chemical resistance.

\*RT: Room Temperature \*Unless otherwise specified, the aqueous solution is in the saturated state.

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Solvent/chemical substance (concentration wt%, temperature °C)	Compati- bility
diethylene glycol	A
tetraethyllead	B
diethyl sebacate (DES)	Pass
carbon tetrachloride	Pass
dioctyl sebacate (DOS)	B
dioctyl phthalate (DOP)	B
cyclohexanol	B
cyclohexanone (anone)	Pass
cyclohexane	Pass
ethylene dichloride	Pass
dichlorobenzene	Pass
dibutyl ether	Pass
dibutyl phthalate (DBP)	B
dibenzyl ether	Pass
dimethylformamide (DMF)	Pass
oxalic acid	A
tartaric acid	A
stearic acid	A
styrene	B
spindle oil	A
petroleum ether	Pass
insulating oil	A
cellosolve	Pass
tannic acid	A
decalin	B
tetrahydrofuran (THF)	Pass
tetrachloroethane	Pass
tetralin (tetrahydronaphthalene)	Pass
turpentine	B
triethanolamine	B
trichloroethylene (trichlene)	Pass
toluene (toluol)	Pass

Solvent/chemical substance (concentration wt%, temperature °C)	Compati- bility
naphthalene	A
naphthenic acid	A
ethylene dichloride	B
methylene dichloride	Pass
nitroethane	F
nitropropane	F
nitrobenzene	Pass
nitromethane	F
lactic acid	A
perchloroethylene	Pass
hydroquinone	A
palmitic acid	A
picric acid	B
castor oil	A
furfural	F
propyl alcohol	B
fluorobenzene	Pass
hexane	Pass
hexyl alcohol	B
n-heptane	Pass
benzaldehyde	Pass
benzene (benzol)	Pass
amyl borate	B
formaldehyde (40/RT)	A
maleic acid	A
acetic anhydride	B
methyl methacrylate	Pass
methyl alcohol	B
methyl isobutyl ketone	Pass
methyl ethyl ketone	Pass
cottonseed oil	A
monoethanolamine	A

Solvent/chemical substance (concentration wt%, temperature °C)	Compati- bility
monochloroacetic acid	B
monochlorobenzene	Pass
linolenic acid	A
malic acid	A
antifreezing solution (50/—)	A
washer fluid (25/—)	A
engine oil	A
gear oil	A
brake fluid	A
mineral oil	B
tung oil	A
vegetable oil	A
lard	A
fatty acid	Pass
salt	A
soap solution	A
developing fluid	A
asphalt	A
benzyl ether	Pass
ammonium nitrite	A
sulfurous acid gas	A
sodium sulfite	A
sulfur	A
mercury(II) chloride	A
iron(II) chloride	A
zinc chloride	A
aluminium chloride	A
ammonium chloride	A
sodium hypochlorite (5/RT)	A
(5/70)	B
potassium permanganate (10/RT)	A
oxygen	A

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