

RESISTANCE OF PVC TO CHEMICAL AGENTS

Resistance of PVC to chemical agents

Chemical Compound	Concentration	Temp. °C	Resistance of PVC
LEAD ACETATE, solution	hot saturated	50	+
VINEGAR (wine)	commercially available	40	+
ACETONE	trace	20	-
ACETONE	100%	20	-
FATTY ACIDS	100%	60	+
ARSENIC ACID, solution	dilute	40	+
BENZOLIC ACID, solution	any concentration	20	+
BORIC ACID, solution	dilute	40	+
BUTYRIC ACID, solution	20%	20	+
CITRIC ACID, solution	up to 10%	40	+
HYDROCHLORIC ACID, solution	up to 30%	40	+
CHROMIC ACID, solution	up to 50%	40	+
FORMIC ACID	100%	20	+
FORMIC ACID, solution	up to 50%	40	+
NITRIC ACID, solution	up to 30%	50	+
BATTERY ACID	-	60	+
PRUSSIC ACID	-	60	+
SILICIC ACID, solution	all concentrations and types	60	+
SULPHURIC ACID, solution	up to 40%	40	+
SUCCINIC ACID, solution	-	60	+
TANNIC ACID	10%	60	•
TARTARIC ACID, solution	up to 10%	40	+
WATER	100%	40	+
AMMONIA WATER	hot saturated	40	+
BROMINE WATER	cold saturated	20	+
CHLORINE WATER	saturated	20	•
SEA WATER	-	60	•
WHITE SPIRIT	-	20	•
SALT WATER	-	40	+
CARBONATED WATER	normal	40	•
AQUA VITAE, all types	commercially available	20	+
DENATURED ETHYL ALCOHOL (sol. 2%)	96%	20	+
METHYL ALCOHOL	100%	40	+
AMMONIA GAS	100%	60	+
LIQUID AMMONIA	100%	20	•
CARBON DIOXIDE dry	100%	60	+
PURE ANILINE	100%	20	-
PHOTOGRAPHIC DEVELOPMENT BATHS	commercially available	40	+
PETROL	100%	60	+
PETROL for tests	-	20	+
BENZOL	100%	20	-
ALCOHOLIC DRINKS	commercially available	20	+
BEER	commercially available	20	+
BORAX, solution	dilute	40	+
BROMINE, liquid	100%	20	-
BUTADIENE	50%	60	+
BUTANE, gas	-	20	+
BUTANOL	up to 10%	20	+
BEESWAX	commercially available	20	+
CHLORINE active	usual concentration	40	+
CHLORINE GAS, dry	100%	20	+
CHLORINE GAS, wet	0.5%	20	+
LIQUID CHLORINE	-	20	-
ALUMINIUM CHLORIDE, solution	dilute	40	+
CALCIUM CHLORIDE, aqueous (sedim.)	-	60	•

Chemical Compound	Concentration	Temp. °C	Resistance of PVC
CALCIUM CHLORIDE, solution	dilute	40	+
IRON CHLORIDE, solution	up to 10%	40	+
HEXANE	-	20	+
ETHYL BENZOL	-	20	-
FORMALDEHYDE	dilute	40	+
FREON 12	100%	20	+
OIL, heating	-	20	•
GELATINE, solution	all concentrations and types	40	+
GLYCERINE, solution	all concentrations and types	60	+
HYDROGEN	100%	60	+
BARIUM HYDROXIDE, solution	all concentrations and types	60	+
POTASSIUM HYDROXIDE, solution	up to 40%	40	+
SODIUM HYDROXIDE, solution	up to 40%	40	+
MILK	commercially available	20	+
LIQUID ANTIFREEZE, for motor vehicles	commercially available	20	+
LYE	-	-	-
MOLASSES	industrial concentrate	20	+
PETROL/BENZOL MIXTURE	80/20%	20	-
NAPHTHALENE	-	20	-
NEKTAL BX, solution	dilute	40	+
OILS AND GREASES	commercially available	60	+
LUBRICATING OILS	100%	20	+
CAMPHOR OIL	100%	20	+
DIESEL OIL	100%	20	+
CORNFLOWER OIL	-	20	+
LINSEED OIL	100%	60	•
MANDARIN OIL	-	20	+
MINERAL OIL	100%	20	+
SILICONE OIL	100%	20	+
TURPENTINE OIL	100%	60	•
TRANSFORMER OIL	100%	20	+
LIQUID PARAFFIN	100%	20	-
OZONE	100%	20	+
PARAFFIN	-	60	+
POTASSIUM PERMANGANATE	up to 6%	20	+
LIQUID PROPANE	100%	20	+
COOKING SALT, solution	dilute	40	+
BARIUM SALTS, solution	all concentrations	60	+
FERTILIZER SALTS, solution	up to 10%	60	+
ZINC SALTS, solution	cold diluted	60	+
SODIUM CARBONATE, solution	dilute	40	+
ALUMINIUM SULPHATE, solution	dilute	40	+
COPPER SULPHATE, solution	dilute	40	+
ZINC SULPHATE, solution	dilute	40	+
SOLUTION for photographic laboratories	commercially available	40	+
FRUIT JUICES	usual concentration	60	+
CARBON TETRACHLORIDE technical	100%	20	•
TETRAETHYL LEAD	100%	20	+
TETRAHYDROFURAN	100%	20	-
TINCTURE OF IODINE	commercially available	20	-
TOLUENE	100%	20	-
UREA, solution	up to 10%	40	-
URINE	normal	40	+
WINES, red and white	commercially available	20	+
SULPHUR	-	60	•

Key: + Resistant - Not resistant • Limited resistance

Flame resistance

Homologation
Cod. MI422C30CD100001
File 4190, sub. 326 - Material prototype: G30

PVC: Class M1 (NFP 92-501)
Self-extinguishing (UL94 V0) for trunking
GWT 850° for accessories