



## TABELLE DI RESISTENZA CHIMICA POLIPROPILENE - PVC

(+) = Resistente  
(0) = Parzialmente resistente  
(-) = Non resistente



## TABLEAUX DE RESISTANCE CHIMIQUE POLYPROPYLENE - PVC

(+) = Résistant  
(0) = Partiellement résistant  
(-) = Non résistant



## POLYPROPYLENE AND PVC CHEMICAL RESISTANCE TABLES

(+) = Resistant  
(0) = Partially resistant  
(-) = Non-resistant



## CHEMIKALIENBESTÄNDIG- KEIT VON POLYPROPYLEN UND VON PVC

(+) = Beständig  
(0) = Teilweise Beständig  
(-) = Nicht beständig

Chemical	Formula	Concentration	Temp °C	PVC	PP
Acetic acid	CH <sub>3</sub> COOH	Technically pure, glacial	20 40	0 -	+ +
Acetic anhydride	(CH <sub>3</sub> CO) <sub>2</sub> O	Technically pure	20 40	- -	+ 0
Acetone	CH <sub>3</sub> -CO-CH <sub>3</sub>	Technically pure	20 40	- -	+ +
Ammonia	NH <sub>3</sub>	Gaseous, technically pure	20 40	+ +	+ +
Ammonium acetate	CH <sub>3</sub> COONH <sub>4</sub>	Aqueous, all	20 40	+ +	+ +
Ammonium chloride	NH <sub>4</sub> Cl	10% Aqueous	20 40	+ +	+ +
Ammonium dihydrogen phosphate	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	Cold saturated, aqueous	20 40	+ +	+ +
Ammonium hydrogen fluoride	NH <sub>4</sub> HF <sub>2</sub>	50% Aqueous	20 40	+ +	+ +
Ammonium nitrate	NH <sub>4</sub> NO <sub>3</sub>	10% Aqueous	20 40	+ +	+ +
Aniline	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>	Technically pure	20	-	0
Antimony trichloride	SbCl <sub>3</sub>	90% Aqueous	20 40	+ +	+ +
Arsenic acid	H <sub>3</sub> AsO <sub>4</sub>	80% Aqueous	20 40	+ +	+ +
Barium hydroxide	Ba(OH) <sub>2</sub>	Saturated, aqueous	20 40	+ +	+ +
Beer		Usual commercial	20 40	+ +	+ +
Bisulfide of carbon	CS <sub>2</sub>	Technically pure	20	-	0
Boric acid	H <sub>3</sub> BO <sub>3</sub>	Aqueous, all	20 40	+ +	+ +
Bromine	Br <sub>2</sub>	Technically pure	20	-	-
Butane	C <sub>4</sub> H <sub>10</sub>	Technically pure	20	+	+
Butanediol	HOCH <sub>2</sub> CH <sub>2</sub> OH	10% Aqueous	20 40	+ 0	+ +
Butanol	C <sub>4</sub> H <sub>9</sub> OH	Technically pure	20 40	+ +	+ +
Butene	C <sub>4</sub> H <sub>8</sub>	Technically pure	20	+	-
Calcium hypochlorite	Ca(OCl) <sub>2</sub>	Cold saturated, aqueous	20 40	+ +	+ +
Chloric acid	HClO <sub>3</sub>	10% Aqueous	20 40	+ +	- +
Chlorine, molecular	Cl <sub>2</sub>	Moist, 97% - gaseous	20	0	-
Chloro acetic acid	Cl <sub>2</sub> CHCOOH	Technically pure	20 40	+ +	+ +
Chloro benzene	C <sub>6</sub> H <sub>5</sub> Cl	Technically pure	20	-	+
Chloroform	CHCl <sub>3</sub>	Technically pure	20	-	0
Chromic acid	H <sub>2</sub> CrO <sub>4</sub>	< 50% Aqueous	20 40	+ +	0 -
Cyclohexanole	C <sub>6</sub> H <sub>11</sub> OH	Technically pure	20 40	+ +	+ +
Dichlorobenzene	C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>	Technically pure	20	-	0
Diesel oil			20 40	+ +	0 +

Chemical	Formula	Concentration	Temp °C	PVC	PP
Diisobutylketone	C <sub>9</sub> H <sub>18</sub> O	Technically pure	20	-	+
Dioxane	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	Technically pure	20 40	- -	0 0
Ethanol	C <sub>2</sub> H <sub>5</sub> OH	96% Technically pure	20 40	+ +	+ +
Ethylene diamine	C <sub>2</sub> H <sub>8</sub> N <sub>2</sub>	Technically pure	20	0	+
Fluorine	F <sub>2</sub>	Technically pure	20	0	-
Fluorosilicic acid	H <sub>2</sub> SiF <sub>6</sub>	32% Aqueous	20 40	+ +	+ +
Formamide	HCONH <sub>2</sub>	Technically pure	20 40	- -	+ +
Formic acid	HCOOH	< 50% Aqueous	20 40	+ +	+ +
		Technically pure	20 40	+ 0	+ 0
Gasoline	C <sub>n</sub> H <sub>2n+2</sub>	Free of lead and aromatic compounds	20 40	+ +	0 +
Glucose	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	Aqueous, all	20 40	+ +	+ +
Glycolic acid	CH <sub>2</sub> OHCOOH	37% Aqueous	20	+	+
Heptane	C <sub>7</sub> H <sub>16</sub>	Technically pure	20	+	+
Hexane	C <sub>6</sub> H <sub>14</sub>	Technically pure	20	+	+
Hydrochloric acid	HCl	5% Aqueous	20 40	+ +	+ +
		10% Aqueous	20 40	+ +	+ +
		Until 30% Aqueous	20 40	+ +	+ 0
		36% Aqueous	20 40	+ +	+ 0
		Technically pure	20 40	+ +	+ +
Hydrocyanic acid	HCN	Technically pure	20 40	+ +	+ +
Hydrofluoric acid	HF	< 40% Aqueous	20 40	+ 0	+ +
Hydrogen	H <sub>2</sub>	Technically pure	20 40	+ +	+ +
Hydrogen peroxide	H <sub>2</sub> O <sub>2</sub>	10% Aqueous	20 40	+ +	+ +
Hydrogen sulfide	H <sub>2</sub> S	Technically pure	20 40	+ +	+ +
Lactic acid	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	10% Aqueous	20 40	+ 0	+ +
Maleic acid	C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>	Cold saturated, aqueous	20 40	+ +	+ +
Mercury	Hg	Pure	20 40	+ +	+ +
Methane	CH <sub>4</sub>	Technically pure	20	+	+
Methanol	CH <sub>3</sub> OH	All	20 40	+ +	+ +
Methyl ethylketone	CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub>	Technically pure	20 40	- -	+ 0
Methylacetate	CH <sub>3</sub> COOCH <sub>3</sub>	Technically pure	20 40	- -	+ +

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## TABLAS DE RESISTENCIA QUÍMICA DEL POLIPROPILENO Y PVC

(+) = Resistente  
(0) = Parcialmente resistente  
(-) = No resistente



## TABELAS RESISTÊNCIA QUÍMICA DO POLIPROPILENO E DO PVC

(+) = Resistente  
(0) = Parcialmente resistente  
(-) = Não resistente

Chemical	Formula	Concentration	Temp °C	PVC	PP	
Methylamine	CH <sub>3</sub> NH <sub>2</sub>	32% Aqueous	20	0	+	
Nitric acid	HNO <sub>3</sub>	6,3% Aqueous	20	+	+	
		40	+			
		< 40% Aqueous	20	+	0	
		40	+			
65% Aqueous	20	0	-			
	40	0				
Oleum	H <sub>2</sub> SO <sub>4</sub> +SO <sub>3</sub>	10% di SO <sub>3</sub>	20	-	-	
Olive oil			20	+	+	
			40	+	+	
Oxalic acid	(COOH) <sub>2</sub>	Cold saturated, aqueous	20	+	+	
			40	+	+	
Oxygen	O <sub>2</sub>	Technically pure	20	+	+	
			40	+		
Ozone	O <sub>3</sub>	up to 2%, in air	20	+	0	
			40		-	
Perchloric acid	HClO <sub>4</sub>	10% Aqueous	20	+	+	
			40	+	+	
Phosphor pentoxide	P <sub>2</sub> O <sub>5</sub>	Technically pure	20	+	+	
			40	+		
Phosphoric acid, aqueous	H <sub>3</sub> PO <sub>4</sub>	< 30% Aqueous	20	+	+	
			40	+	+	
			50% Aqueous	20	+	+
			40	+	+	
85% Aqueous	20	+	+			
	40	+	+			
Potassium borate	K <sub>3</sub> BO <sub>3</sub>	10% Aqueous	20	+	+	
			40	+	+	
Potassium bromide	KBr	Aqueous, all	20	+	+	
			40	+	+	
Potassium carbonate	K <sub>2</sub> CO <sub>3</sub>	Cold saturated, aqueous	20	+	+	
			40	+	+	
Potassium chrome sulphate	KCr(SO <sub>4</sub> ) <sub>2</sub>	Cold saturated, aqueous	20	+	+	
			40	+	+	
Potassium dichromate	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	Saturated, aqueous	20	+	+	
			40	+	+	
Potassium iodite	KJ	Cold saturated, aqueous	20	+	+	
			40	+	+	
Potassium nitrate	KNO <sub>3</sub>	50% Aqueous	20	+	+	
			40	+	+	
Potassium persulphate	K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Aqueous, all	20	+	+	
			40	+	+	
Propane	C <sub>3</sub> H <sub>8</sub>	Technically pure, aqueous	20	+	+	
Propionic acid	CH <sub>3</sub> CH <sub>2</sub> COOH	50% Aqueous	20	+	+	
			40	+	+	
Sea water			20	+	+	
			40	+	+	
Sodium acetate	CH <sub>3</sub> COONa	Aqueous, all	20	+	+	
			40		+	
Sodium bromate	NaBrO <sub>3</sub>	Aqueous, all	20	+	+	
			40	0	0	
Sodium bromide	NaBr	Aqueous, all	20	+	+	
			40	+	+	
Sodium carbonate	Na <sub>2</sub> CO <sub>3</sub>	Cold saturated, Aqueous	20	+	+	
			40	+	+	
Sodium disulfite	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Aqueous, all	20	+	+	
			40	+		
Sodium dithionite	Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>	< 10% Aqueous	20	+	+	
			40	+	+	



## ТАБЛИЦЫ ХИМИЧЕСКОЙ УСТОЙЧИВОСТИ ПОЛИПРОПИЛЕНА И ПВХ

(+) = Устойчив  
(0) = Частично устойчив  
(-) = Неустойчив



## ตารางความทนต่อสารเคมีของโพลีโพรพิลีนและ PVC

(+) = ทนทานมาก  
(0) = ทนทานปานกลาง  
(-) = ไม่ทนทาน

Chemical	Formula	Concentration	Temp °C	PVC	PP	
Sodium fluoride	NaF	Cold saturated, aqueous	20	+	+	
			40	+		
Sodium hydrogencarbonate	NaHCO <sub>3</sub>	Cold saturated, aqueous	20	+	+	
			40	+	+	
Sodium hydrogensulfite	NaHSO <sub>3</sub>	Aqueous, all	20	+	+	
			40	0	+	
Sodium hydroxide	NaOH	< 10% Aqueous	20	+	+	
			40	+	+	
Sodium iodide	NaI	Aqueous, all	20	+	+	
			40	+		
Sodium nitrate	NaNO <sub>3</sub>	Cold saturated, aqueous	20	+	+	
			40	+	+	
Sodium phosphate	Na <sub>3</sub> PO <sub>4</sub>	Cold saturated, aqueous	20	+	+	
			40	+	+	
Sodium silicate	Na <sub>2</sub> SiO <sub>3</sub>	Aqueous, all	20	+	+	
			40	+	+	
Sodium sulphate	Na <sub>2</sub> SO <sub>4</sub>	Cold saturated, aqueous	20	+	+	
			40	+	+	
Sodium tetraborate	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	Aqueous, all	20	+	+	
			40	+	+	
Sulfur	S	Technically pure	20	0	+	
			40	-	+	
Sulphuric acid	H <sub>2</sub> SO <sub>4</sub>	< 40% Aqueous	20	+	+	
			40	+	+	
			< 60% Aqueous	20	+	+
			40	+	+	
			< 80% Aqueous	20	+	+
			40	+	+	
90% Aqueous	20	+	0			
	40	+				
96% Aqueous	20	+	-			
	40	+				
Sulphurous acid	H <sub>2</sub> SO <sub>3</sub>	Saturated, aqueous	20	+	+	
			40	+	+	
Tartaric acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	Aqueous, all	20	+	+	
			40	+	+	
Tetrachloro ethane	C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	Technically pure	20	-	0	
Trichloroacetic acid	CCl <sub>3</sub> COOH	Technically pure	20	0	+	
			40		+	
Trioctylphosphate	(C <sub>8</sub> H <sub>17</sub> ) <sub>3</sub> PO <sub>4</sub>	Technically pure	20	-	+	
Urea	H <sub>2</sub> N-CO-NH <sub>2</sub>	< 30% Aqueous	20	+	+	
			40	+	+	
Waste gas with bromine vapours	Br <sub>2</sub>	High	20	-	-	
Waste gas with carbon dioxide	CO <sub>2</sub>	Technically pure, dry	20	+	+	
			40	+	+	
Technically pure, moist	20	+	+			
	40	+	+			
Waste gas with nitric oxide	NOx	Diluted, dry and moist	20	+	+	
			40		0	
Waste gas with sulfur dioxide	SO <sub>2</sub>	Technically pure, dry	20	+	+	
			40	+	+	
all, moist	20	+	+			
	40	+	+			
Technically pure, liquid	20	-	-			
	40					
Waste gas with sulfur trioxide	SO <sub>3</sub>		20	-	-	
Xylene	C <sub>8</sub> H <sub>10</sub>	Technically pure	20	-	-	

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