

**Chemical resistance of PMMA**

	<b>Concentration</b>	<b>Temperature (°C)</b>	<b>Quality change</b>
Acetaldehyde	100%	20	0
Acetone	100%	23	0
Battery acid	-	20	+++
Amyl - acetate	100%	20	0
Ammonium hydroxide	30%	23	+++
	100%	20	0
Aniline	100%	23	0
Benzaldehyde	100%	23	0
Benzin (normal)	100%	23	+++
Benzine (with benzole)	100%	23	0
Benzoilchloride	100%	25	0
Benzole	100%	25	0
Boron acid	100%	20	+++
Butyl acetate	100%	20	0
Butyl chloride	100%	20	0
Butyl stearate	100%	20	++
Cyckohexane	100%	20	0
Cycklohexanol	100%	20	0
Citric acid	10%	25	+++
Dialcylphthalat	100%	20	++
	100%	20	0
Diethyl ethter	100%	25	+++
Dimethyl formamid	100%	25	0
Diocylphthalat	100%	20	0
Dioxan	100%	20	0
Diesel oil	100%	20	+++
Dipentene	100%	25	0
Acetic acid	5%	23	+++
	10%	20	+++
	100%	25	0
Ethyl acetate	100%	23	0
Ethyl alcohol	20%	20	+++
	50%	25	+++
	95%	23	+++
	95%	70	0
Ethylen glycol	100%	20	+++
Ethylen chloride	100%	20	0
Ethylen dichloridilen-dichloride	100%	25	0
Ethylen oxide	100%	20	0
Ethyl ether	100%	20	0
Phenol	100%	20	0
Hydrocarbon with fluorid (Freon, Frigen)	100%	20	++
Formaldehyde	40%	20	+++
Phosphorus acid	10%	20	+++
Galvanic bath	-	20	+++
Grease	100%	20	+++
Glycerin	100%	20	+++
Formic acid	10%	20	+++
	90%	20	0
Heptane	100%	25	+++
Hexane	100%	23	+++
	100%	70	+++
Hydraulical oil	100%	20	+++
Hydrogen fluoride	100%	20	0
Hydrogen peroxide	3%	25	+++
	100%	25	+++
Isopropyl-alcohol	100%	20	++
Acidum aceticum	100%	20	0
Calcium chloride	saturated solution	20	+++

Potassium hydroxide	40%	20	+++
Potassium permanganate	25%	23	+++
	25%	70	++
Sulphuric acid	30%	23	+++
	70%	25	0
Chloroform	100%	25	+++
Chloroform	100%	20	0
Chlorine/water	2%	20	++
Cresol	100%	20	0
Chromic acid hydride	10%	20	++
Linseed oil	100%	20	+++
Methyl alcohol	10%	20	+++
	100%	20	++
	100%	70	0
Methylene chloride	100%	20	0
Butanone	100%	23	0
Monochloro benzene	100%	20	0
Engine oil	100%	-	+++
Sodium hydroxide	60%	25	+++
Sodium hypochlorite	5%	25	+++
Sodium carbonate	20%	25	+++
Sodium chloride	10%	25	+++
Nitrobenzene	100%	20	0
Nitro-varnish	-	20	0
Vegetable oils	100%	20	+++
Crude oil	100%	20	+++
Octane	100%	20	++
Olive oil	100%	25	+++
Oxalic acid	100%	20	+++
Oxalic acid	saturated solution	-	+++
Perchloro ethylene	100%	23	+++
	100%	70	0
Petroleum ether	100%	20	+++
Petroleum	100%	25	+++
Propylene oxide	100%	70	+++
Nitric acid	10%	25	+++
	10%	70	+++
	70%	25	0
Hydric chloride	37%	70	+++
Soap solution	-	25	+++
Acelain acid	100%	20	+++
Carbon tetrachloride	100%	25	0
Silicone oil	100%	20	++
Synthetic detergent	100%	25	+++
Stearic acid	100%	20	+++
Lactic acid	20%	20	++
Terpentine	100%	25	+++
Tetrahydrofurane	100%	20	0
Toluene	100%	20	0
Transformer oil	100%	20	+++
Triethyl amine	100%	20	+++
Trichlorin ethane	100%	20	0
Trichlorin ethylene	100%	20	0
Trikresyl phosphate	100%	20	0
Water (distilled)	100%	20	+++
	100%	70	+++
	100%	25	+++
Xylene	100%	25	++

Key to the signs used

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satisfactory, quality deterioration max.: 15%

conditional satisfactory quality deterioration 15...50%

