

## Chemical resistance **GEHR®** PMMA

Substance	Concentration (%)	Room temperature	60°C
1,4, Dioxane	100	0	0
2- Hydroxypropionic Acid	90	0	0
Acetic Acid	100	-	-
Acetone	100	-	-
Ammonia	conc.	+	0
Ammonium Chloride		0	0
Amyl Alcohol		-	-
Apple Juice		+	0
Benzene		-	-
Bleaching Solution	12,5 cl	0	0
Boric Acid	100	0	0
Brake Fluid		0	0
Butyl Acetate		-	-
Calcium Chloride		+	+
Carbon Disulfide	100	-	-
Carbon Tetrachloride		-	-
Chlorine, gas	100	o	o/-
Chlorobenzene	100	0	0
Chloroform		-	-
Citric Acid	10	+	+
Cresol		-	-
Cyclohexanone	100	-	-
Cyclohexene	100	-	-
Diesel Fuel		+	0
Diethylene Oxide		-	-
Ethyl Acetate	100	-	-
Ethyl Alcohol	96	+/-	-
Ethylene Chloride	100	-	-
Food Oil		0	0
Formaldehyde, aqueous	40	+	0
Formic Acid	10	-	-
Frost Protection Agent		0	0
Fuel, aromatic free		+	0
Glycerin	100	+	0
Glycol	100	+	0
Heating Oil		+	0
Heptane	100	+	0
Hydrochloric Acid	10	+	0
Hydrochloric Acid	conc.	+	0
Hydrofluoric Acid	40	-	-
Hydrogen Peroxide	10	+	0
Hydrogen Sulfide, aqueous solution		+	0
Isopropyl Alcohol	100	+/-	o/-
Linseed Oil		+	0
Mercurochrome		-	-
Methyl Alcohol	100	-	-
Methyl Ethyl Ketone (MEK)	100	-	-

Methylene Chloride	100	-	-
Milk		+	0
Mineral Oils (aromatic free)		+	0
Nitric Acid	10	+	+
Nitric Acid	50	-	-
Nitrobenzene		-	-
Oxalic Acid		+	0
Ozone Gas	≤ 0,5 ppm	+	0
Paraffine Oil	100	+	0
Perchloroethylene		o	o/-
Petroleum	100	o	o/-
Petroleum Ether	100	+	0
Phenol, aqueous	ca. 9	-	-
Phosphoric Acid	50	-	-
Potassium Hydroxide liquor	50	+	0
Premium Fuel		-	-
Propyl Alcohol		0	0
Pyridine		0	0
Silicone Oil		+	0
Sodium Carbonate, aqueous		+	+
Sodium Chloride, aqueous		+	0
Sodium Hydrogen Sulfite		+	0
Sodium Hydroxide liquor	15	+	0
Sodium Hydroxide liquor	60	-	-
Sodium Nitrate, aqueous		0	0
Sodium Thiosulfate		+	0
Sulfuric Acid	96	-	-
Tetrahydrofuran, THF	100	-	-
Toluene	100	-	-
Transformer Oil		+	0
Trichloroethylene	100	-	-
Vinegar, standard	5 - 10	+	+
Water		+	+
Xylene		-	-

+ = resistant      o = limited resistant      - = not resistant      0 = no data available

These values provided on the chemical resistance of the raw material used in the semi-finished article are approximate values. They may be affected by the actual temperature, exposition duration, concentration of the substance interfering and the stress level of the component. The stress level is caused by the internal stress of the semi-finished article and the mechanical loads of the application. The user of this information has the obligation of performing tests / trials under the conditions of the application.

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