

CHEMICAL RESISTANCE OF LIGHT FITTING BODIES MADE OF THERMOPLASTIC MATERIALS

Environment	Maximum concentration	Polycarbonate/PC			Acrylate/AC (SAN, PMMA)			ABS			Aluminium/Al (DIN 230)			Polystyrene/PS H		
		Resistance			Resistance			Resistance			Resistance			Resistance		
		yes	partially	no	yes	partially	no	yes	partially	no	yes	partially	no	yes	partially	no
Acetone (ketones)		●		●	●		●		●	●		●		●		●
Aniline (organic bases)			●	●			●		●			●			●	●
Ammonia	5%			●	●				●			●			●	●
Benzene and benzaldehyde				●					●			●			●	●
Diethylether (ethers)				●		●			●			●			●	●
Potassium nitrate		●		●	●				●			●			●	●
Ethanol (alcohols)	50%	●		●		●			●			●			●	●
Ethylacetate (esters)				●					●			●			●	●
Ethyl alcohol		●		●		●			●			●			●	●
Phenol				●					●			●			●	●
Glycerine			●	●	●				●			●			●	●
Heptane				●		●			●			●			●	●
Ammonium hydroxide	25%			●	●				●		●			●		●
Sodium hydroxide - base	60%			●	●				●		●		●		●	●
Sodium chloride - salt solution	15%	●		●	●				●			●			●	●
Sulphur chloride and Calcium chloride		●		●	●				●			●			●	●
Carbon tetrachloride and Chloric ether				●					●			●			●	●
Iron dichloride		●		●	●				●			●			●	●
Arsenic acid and Oleic acid		●		●	●				●			●			●	●
Citric acid	20%	●		●	●				●			●			●	●
Nitric acid	20%		●	●		●			●			●			●	●
Nitric acid	50%			●					●			●			●	●
Hydrochlorid acid	5%	●		●	●				●			●			●	●
Hydrochlorid acid	35%			●					●			●			●	●
Chromic acid	40%		●	●		●			●			●			●	●
Formic acid	30%			●		●			●			●			●	●
Acetic acid	10%	●		●	●				●			●			●	●
Sulphuric acid	30%	●		●	●				●			●			●	●
Methanol				●					●			●			●	●
Fuel oil			●	●		●			●			●			●	●
Mineral oil			●	●	●				●			●			●	●
Vegetable oil			●	●	●				●			●			●	●
Rape oil			●	●	●				●			●			●	●
Lamp oil			●	●		●			●			●			●	●
Hydrogen peroxide	30%			●					●			●			●	●
Ammonium, sodium, copper sulphate etc.	15%	●		●	●				●			●			●	●
Toluene (non-polar hydrocarbons)				●					●			●			●	●
Turpentine oil				●					●			●			●	●
Trichlorethylene				●					●			●			●	●
Sodium carbonate	20%	●		●	●				●			●			●	●
Aliphatic hydrocarbons		●		●	●				●			●			●	●
Aromatic hydrocarbons				●					●			●			●	●
Alkali and detergents				●	●				●			●			●	●