



# Chemical resistance of the lighting housings made from thermoplastics

Environment with chemical agents	concentration	polycarbonate/PC			acrylic/AC (PMMA)			polystyrene/PS H			ABS (Forsan)		
		yes	Relatively	not	yes	Relatively	not	yes	Relatively	not	yes	Relatively	not
Acetone (Ketone)				X			X			X			X
Aniline (organical base)			X				X			X			X
Ammonia	5%			X	X				X		X		
Benzene and benzol				X			X			X			X
Deithylether (ether)				X		X				X			X
Pottasium nitride-nitrate		X			X								
Ethanol (alcohol)	50%	X				X			X			X	
Ethylacelar(ester)				X			X			X			X
Ethylalcohol		X				X		X			X		
Phenol				X			X			X			X
Glycerin			X		X								
Heptane					X			X					X
Ammonium hydroxide/	25%				X				X			X	
Sodium hydroxide-Ive	60%			X			X	X			X		
Sodium chloride – salt solution	15%	X			X			X			X		
Chloride sulfurous and calcic		X			X								
Chloride carbonic and nitrite				X	X					X			X
Chlorideferrous			X			X							
Acid arsenic and oily		X					X	X			X		
Citric acid	20%	X			X			X			X		
Nitric acid	20%		X			X			X			X	
Nitric acid													
Hydrochloric acid	5%	X			X			X			X		
Hydrochloric acid	35%			X			X			X			X
Acid chromium	40%		X			X			X			X	
Formic acid	30%			X		X							
Acetatic acid	10%	X			X			X				X	
Methoxide	30%	X			X			X				X	
Methanol				X			X			X			X
Diesel-fuel mixtures			X			X				X	X		
Mineral oil			X		X				X		X		
Vegetable oil			X		X			X			X		
Rape oil – biodiesel			X		X			X				X	
Kerosine			X			X		X				X	
Hydrogen peroxide	30%						X			X		X	
Ammonium vitriol, sodium sulfate etc.	15%	X			X			X			X		
Toluene (non-polar hydrocarbons)				X			X			X			X
Turpentine									X				X
Trichlorethylene				X			X			X			X
Bicarbonate	20%	X			X			X			X		
Aliphatic hydrocarbons		X			X							X	
Aromatic and halide hydrocarbons				X			X			X			X
Alcalines				X	X			X			X		