

General information: Chemical resistance of plastics

Since some of our luminaires are made of plastic materials, their resistance against chemical products may be limited or even nil. Consult this list before using aggressive detergents, disinfectants or installing the luminaire in chemical hazardous areas (as cars washes, swimming pools, industrial kitchens, industrial laundries, slaughterhouses, stables, cultivation farms, etc ...) or in case of doubt, please contact us. For these conditions, appropriate products (like stainless steel clips, etc...) are available.

CHEMICAL	BC7	PMMA	PC*	POLYESTER	PS	PA	V2A Stainless steel
ARTIC	Cover	Cover 1-Clip 1	Cover-Body	Body			Clip
FOK/PS			Clip 1				Clip
FOK/PC			Cover-Clip 1				Clip
OCEAN LED			Cover-Clip 1				Clip
ACIDS (Weak up to 10 %):	+	+/-	+	+	+	-	+
ACIDS							
Acetic (max 30%)	+/-	-	+/-	+	+/-	-	+
Hydrochloric (max 20%)	+/-	+	+/-	+	+/-	-	-
Nitric (max 20%)	+/-	+/-	+/-	+/-	+/-	-	+/-
Sulphuric (max 50%)	+/-	+/-	+/-	+/-	+/-	-	-
Phosphoric (max 30%)	+/-	-	+/-	+/-	+/-	-	+/-
Hydrobromic	-	-	-	-	-	-	-
Accumulator Acid	+/-	+/-	+/-	+/-	+/-	-	-
BASES (Weak)							
Ammonia (max 25%)	+	+	-	+	+	+	+
BASES (Concentrated)							
Ammonia (max 50%)	+	+/-	-	+/-	+	+/-	+/-
Sodium Hydroxide (max 45%)	+	+/-	-	-	+	+	+/-
SALT SOLUTIONS							
Common Salt	+	+	+/-	+	+	+	+/-
Metal Salt	+	+	+/-	+	+	+	+/-
Soda	+	+	+/-	+	+	+	+
HYDROCARBONS							
Aliphatic	-	+/-	+	+/-	-	+	-
Aromatic	-	-	-	+/-	-	+	-
Parafins	+/-	+	+	+	+/-	+	+
Carbon Dioxide, Carbon Monoxide	+/-	+	+	+	+/-	+	+
Ethyl Acetate	-	-	-	-	-	+	+/-
Pyridine	-	-	-	-	-	+	+
CHLORIDE HYDROCARBONS							
Carbon Tetrachloride	-	-	-	+/-	-	-	+/-
Trichlorethylene	-	-	-	-	-	-	-
Methylene Chloride	-	-	-	-	-	-	+/-
ALCOHOLS							
Up to 30 %	+	+/-	+/-	+	+	+	+
Concentrated	+	-	-	+/-	+	+	+/-
Methanol, Ethanol	-	-	-	+/-	-	+/-	+
Phenol	-	-	-	-	-	-	+/-
ETHERS							
Ether	+/-	+/-	-	+/-	+/-	+	+
Petroleum Ether	-	+/-	-	+/-	-	+	+
AROMA TIC HYDROCARBONS							
Aniline	-	+/-	-	+/-	-	+/-	+/-
Benzene and derivatives	-	-	-	-	-	+/-	+
Hydrogen Peroxide	-	+/-	+/-	-	-	-	+/-
Xylene	-	-	-	-	-	+	+
OILS and FATS							
Petrol, Kerosine	-	+/-	+/-	+	-	+	+
Mineral oil	+/-	-	+/-	+	+/-	+	+
Vegetable oils (hot)	+	+	-	+	+	+/-	+
Cooking fats (hot)	+	+	-	+	+	+/-	+
UNSATURATED CHLORIDE HYDROCARBONS							
Chloroform	-	-	-	-	-	-	+/-

+ = Resistant / +/- = Limited resistant / - = Not resistant

* : In case of limited resistance to corrosion (+/-) the use of Polycarbonate clips is not allowed.

1 : Optional



General information:

Technical characteristics of plastics

Characteristics	Units	BC7 (normal)	PMMA (normal extrusion)	PMMA (High impact extrusion)	PC	PS (normal)	PS (High impact)	G-RP (Reinforced polyester)
Maximum temperature continuous use	°C	80	75	66	115	80	80	150
Transmission coefficient (clear sheet 3 mm)	%	89	92	90	85	89	-	-
Impact strenght charpy unnotched	KJ/m ²	14	12	65	not broken	14	65	90

Degree of protection IP

IP	Protection against ingress of : SOLID OBJECTS		(symbol)	Protection against ingress of : WATER		(symbol)
	IP 1 X	> 50.0 mm		IP X 1	Dripping	⬇
	IP 2 X	> 12.0 mm		IP X 2	Dripping titled up to 15°	
	IP 3 X	> 2.50 mm		IP X 3	Spraying	⬇
	IP 4 X	> 1.00 mm		IP X 4	Splashing	⬇
	IP 5 X	DUST	⬇	IP X 5	Water jets	⬇
	IP 6 X	DUST TIGHT	⬇	IP X 6	Heavy seas	⬇
				IP X 7	Immersion (1m)	⬇
				IP X 8	Submersion	

Electrical wiring

Electrical wiring complies with European Norm En60598 (IEC598), wiring according to other standards on request.

All electrical components comply with European quality standards and have at least one approval and Kitemark (ENEC, CEBC, KEMA, VDE, N, S, D, F, BS, IMQ, UTE ...)

Mains voltages: 110, 127, 220, 230, 240V / Frequencies: 50 or 60 Hz

Power Factor Correction (as option) by means of Parallel- or Series capacitor

- Low Power Factor: (LPF) : <= 0.50
- High Power Factor: (HPF) : >= 0.85

The values of the capacitors (in micro-Farad) shall be provided on request.

Radio Interference Suppression by means of 22 nF RFI capacitor (as option) or Parallelcapacitor to comply with EN55015