



## 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 |
|--|-----|------|-----|-----------|-----|-----|---------------------|
| <b>ACIDS (Weak up to 10 %):</b>          | +   | +/-  | +   | +         | +   | -   | +                   |
| <b>ACIDS</b>                             |     |      |     |           |     |     |                     |
| Acetic (max 30%)                         | +/- | -    | +/- | +         | +/- | -   | +                   |
| Hydrochloric (max 20%)                   | +/- | +    | +/- | +         | +/- | -   | -                   |
| Nitric (max 20%)                         | +/- | +/-  | +/- | +/-       | +/- | -   | +/-                 |
| Sulphuric (max 50%)                      | +/- | +/-  | +/- | +/-       | +/- | -   | -                   |
| Phosphoric (max 30%)                     | +/- | -    | +/- | +/-       | +/- | -   | +/-                 |
| Hydrobromic                              | -   | -    | -   | -         | -   | -   | -                   |
| Accumulator Acid                         | +/- | +/-  | +/- | +/-       | +/- | -   | -                   |
| <b>BASES (Weak)</b>                      |     |      |     |           |     |     |                     |
| Ammonia (max 25%)                        | +   | +    | -   | +         | +   | +   | +                   |
| <b>BASES (Concentrated)</b>              |     |      |     |           |     |     |                     |
| Ammonia (max 50%)                        | +   | +/-  | -   | +/-       | +   | +/- | +/-                 |
| Sodium Hydroxide (max 45%)               | +   | +/-  | -   | -         | +   | +   | +/-                 |
| <b>SALT SOLUTIONS</b>                    |     |      |     |           |     |     |                     |
| Common Salt                              | +   | +    | +/- | +         | +   | +   | +/-                 |
| Metal Salt                               | +   | +    | +/- | +         | +   | +   | +/-                 |
| Soda                                     | +   | +    | +/- | +         | +   | +   | +                   |
| <b>HYDROCARBONS</b>                      |     |      |     |           |     |     |                     |
| Aliphatic                                | -   | +/-  | +   | +/-       | -   | +   | -                   |
| Aromatic                                 | -   | -    | -   | +/-       | -   | +   | -                   |
| Parafins                                 | +/- | +    | +   | +         | +/- | +   | +                   |
| Carbon Dioxide, Carbon Monoxide          | +/- | +    | +   | +         | +/- | +   | +                   |
| Ethyl Acetate                            | -   | -    | -   | -         | -   | +   | +/-                 |
| Pyridine                                 | -   | -    | -   | -         | -   | +   | +                   |
| <b>CHLORIDE HYDROCARBONS</b>             |     |      |     |           |     |     |                     |
| Carbon Tetrachloride                     | -   | -    | -   | +/-       | -   | -   | +/-                 |
| Trichlorethylene                         | -   | -    | -   | -         | -   | -   | -                   |
| Methylene Chloride                       | -   | -    | -   | -         | -   | -   | +/-                 |
| <b>ALCOHOLS</b>                          |     |      |     |           |     |     |                     |
| Up to 30 %                               | +   | +/-  | +/- | +         | +   | +   | +                   |
| Concentrated                             | +   | -    | -   | +/-       | +   | +   | +/-                 |
| Methanol, Ethanol                        | -   | -    | -   | +/-       | -   | +/- | +                   |
| Phenol                                   | -   | -    | -   | -         | -   | -   | +/-                 |
| <b>ETHERS</b>                            |     |      |     |           |     |     |                     |
| Ether                                    | +/- | +/-  | -   | +/-       | +/- | +   | +                   |
| Petroleum Ether                          | -   | +/-  | -   | +/-       | -   | +   | +                   |
| <b>AROMATIC HYDROCARBONS</b>             |     |      |     |           |     |     |                     |
| Aniline                                  | -   | +/-  | -   | +/-       | -   | +/- | +/-                 |
| Benzene and derivates                    | -   | -    | -   | -         | -   | +/- | +                   |
| Hydrogen Peroxide                        | -   | +/-  | +/- | -         | -   | -   | +/-                 |
| Xylene                                   | -   | -    | -   | -         | -   | +   | +                   |
| <b>OILS and FATS</b>                     |     |      |     |           |     |     |                     |
| Petrol, Kerosine                         | -   | +/-  | +/- | +         | -   | +   | +                   |
| Mineral oil                              | +/- | -    | +/- | +         | +/- | +   | +                   |
| Vegetable oils (hot)                     | +   | +    | -   | +         | +   | +/- | +                   |
| Cooking fats (hot)                       | +   | +    | -   | +         | +   | +/- | +                   |
| <b>UNSATURATED CHLORIDE HYDROCARBONS</b> |     |      |     |           |     |     |                     |
| Chloroform                               | -   | -    | -   | -         | -   | -   | +/-                 |

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

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





## General information:

### Technical characteristics of plastics

| Characteristics                             | Units             | BC7<br>(normal) | PMMA<br>(normal extrusion) | PMMA<br>(High impact extrusion) | PC         | PS<br>(normal) | PS<br>(High impact) | G-RP<br>(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 strength charpy unnotched            | KJ/m <sup>2</sup> | 14              | 12                         | 65                              | not broken | 14             | 65                  | 90                             |

### Degree of protection IP



| Protection against ingress of :<br><b>SOLID OBJECTS</b> |            | Protection against ingress of :<br><b>WATER</b> |                           |
|---|------------|---|---------------------------|
| 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, CEBEC, 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

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