Polycarbonate
Impact Resistant Display Windows

PSE
OPTICAL SOLUTIONS REFINED
Product Features

Polycarbonate means durability and safety of your electronic display due to its high shock- and impact resistance and good flammability properties. PSC has a wide range of clear and custom coloured polycarbonate readily available for processing into application specific solutions. Within this range, we offer various combinations of colour and fire ratings for high demand applications matching the exact requirements of the customer. Additionally, customer specific colour design requirements can be fulfilled.

The material is easily machined, cut and formed. EMI-shielding, silkscreen printing and coating are successfully combined with polycarbonate.

The properties of polycarbonate make the material suitable for use in displays, information boards and Passenger Information Systems (PIS) which are extensively used in mass transportation vehicles (i.e. busses, trains & trams), bus- and train stations, and airports etc.

Display applications placed in public transport environments often meet strict fire and smoke toxicity requirements. That is why PSC supply polycarbonate that does not contribute significantly to the spread of fire or to the generation of toxic gasses. PSC fire resistance polycarbonate can meet the strictest flammability and smoke toxicity requirements, e.g. EN 45 545, UL94 V0, DIN 5510-2 : 2009, NF-F16-101.

Although polycarbonate is virtually unbreakable it is a relatively soft material compared to PMMA and glass. Typically, a surface treatment is applied, such as Fine Mat, Hard Mat or HC clear. The polycarbonate sheet can be processed into customized size and shape, and combined with various surface features, such as non-glare or scratch resistance.

Technical Data

<table>
<thead>
<tr>
<th>Light transmission</th>
<th>&gt; 85% (clear)</th>
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</thead>
<tbody>
<tr>
<td>Colours</td>
<td>Clear and custom tinted*</td>
</tr>
<tr>
<td>Standard thickness</td>
<td>From 0,5 mm</td>
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<tr>
<td>Maximum dimensions</td>
<td>2050 x 3300 mm</td>
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</tbody>
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*i.e. dark grey, amber/brown, etc.*