DISTINCTIVE AND UNIQUE
FOR YOUR SOPHISTICATED ADVERTISING.
SMART-X®
DISTINCTIVE AND UNIQUE FOR YOUR SOPHISTICATED ADVERTISING

PRODUCT

SMART-X® the distinctive and unique lightweight foam board for sophisticated applications in the field of visual communication.

SMART-X® is a lightweight, all-plastic sheet material with surfaces of UV and weather resistant solid polystyrene (HIPS) and a core of expanded polystyrene that is completely moisture-resistant. These characteristics make SMART-X® the world’s only lightweight foam board for external applications without any significant change in colour for a period of up to two years. Due to its refined surface structure and the large format production (up to 2 metres width) SMART-X® is also perfectly suited for direct digital printing.

Moreover, SMART-X® is a mono-material composite made from 100% polystyrene and, therefore, perfectly meets the demand for ecological materials in the area of visual communication.

SMART-X® – AT A GLANCE

■ High stability and very low weight
■ Very good resistance to weathering – with high UV stability and humidity resistance, no deformation
■ Refined surface structure
■ Brilliant printing results with direct digital printing
■ Also available in 2 metres width
■ Temperature resistance from -10°C up to +70°C
■ Low resistance during contour milling

SMART-X® – THE GREEN ASPECT

■ SMART-X® is a mono-material composite made from 100 % polystyrene (no adhesive between core and cover layers)
■ Ecological - SMART-X® with a homogeneous compound is 100% recyclable
■ About 95% of the production waste of the SMART-X® production is collected and recycled on-site

APPLICATION

PRINTING – CUTTING – ASSEMBLING

SMART-X® can be used with all lamination and printing techniques for applications in the field of advertising signage, event marketing and POS/POP displays. Thanks to the excellent ratio of extremely low weight and high rigidity and flatness, SMART-X® is ideal for the following two-dimensional applications:

■ All types of signage, especially large-format or long and narrow signs – formats where other materials usually deform.
■ Life-sized fashion displays made from SMART-X® – directly printed – contour milled – assembled on site – ready to go!

Our customers are convinced of the unique qualities of SMART-X®. Major furniture stores, DIY stores, food retail chains as well as suppliers of POS/POP displays and service providers in the event marketing industry are just a few examples of the satisfied SMART-X® customer base.

Additional safety requirements and detailed processing instructions for SMART-X® can be received upon request.

SMART-X® – DISTINCTIVE AND UNIQUE FOR YOUR SOPHISTICATED ADVERTISING
PRODUCT RANGE

<table>
<thead>
<tr>
<th>Colour</th>
<th>white</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>5 mm / 10 mm / 19 mm</td>
</tr>
<tr>
<td>Standard formats (WxL)</td>
<td>1220 x 2440 mm / 1220 x 3050 mm / 2030 x 3050 mm</td>
</tr>
<tr>
<td>Protective film</td>
<td>on one side / both sides</td>
</tr>
</tbody>
</table>

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Thickness</th>
<th>5 mm</th>
<th>10 mm</th>
<th>19 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1 kg/m²</td>
<td>1,90 kg/m²</td>
<td>3 kg/m²</td>
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<tr>
<td>Flexural strength</td>
<td>EN ISO 178</td>
<td>10 MPa</td>
<td>7 MPa</td>
</tr>
<tr>
<td>E-modul (bending test)</td>
<td>EN ISO 178</td>
<td>600 MPa</td>
<td>400 MPa</td>
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<tr>
<td>Service temperature</td>
<td>–</td>
<td>up to 70°C</td>
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<tr>
<td>Thermal expansion</td>
<td>DIN EN ISO 75-2</td>
<td>0,08 mm/(mK)</td>
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</tr>
</tbody>
</table>

100% homogeneous polystyrene – recyclable

ROHS DIRECTIVE

SMART-X® meets the requirements of the RoHS/WEEE directives of the European Union on the restriction of hazardous substances. SMART-X® foam boards do not contain lead, mercury, cadmium, hexavalent chromium, phthalate, formaldehyde, CFCs, asbestos, plasticizer nor silicone.

REACH REGULATION

SMART-X® meets the requirements of the current version of the European Union chemicals regulation (REACH). In particular, SMART-X® foam boards do not contain any of the substances which are listed in the current version of the ECHA Candidate List of “Substances of Very High Concern” (SVHC).

PROCESSING AT A GLANCE

- Digital printing
- Laminating / Mounting
- Overlac-quering / Varnishing
- Sawing
- Contour cutting / Contour milling
- Laser cutting
- Routing and folding (V-groove cut)
- Gluing