

SMART-X[®]

DISTINCTIVE AND UNIQUE
FOR YOUR SOPHISTICATED ADVERTISING.

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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, offering vibrant colours even for exterior applications
- 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:

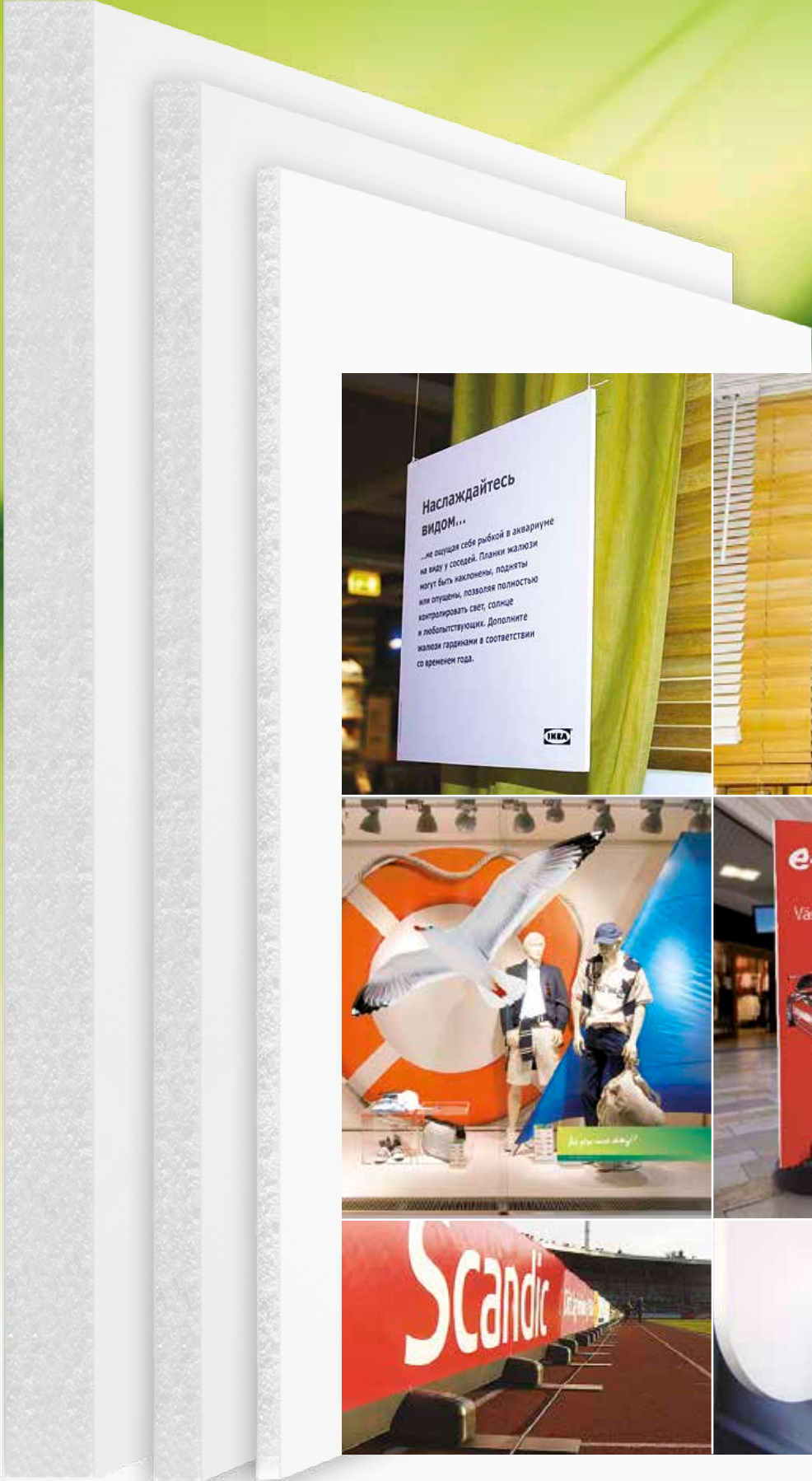
- All types of signage, especially large-format or long and narrow signs – formats where other materials usually deform.
- Optimal for self-supporting, free-standing structures – directly printed – milled – shipped flat – assembled on site.
- Life-sized fashion displays made from SMART-X® – directly 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.

Application examples on the right side:

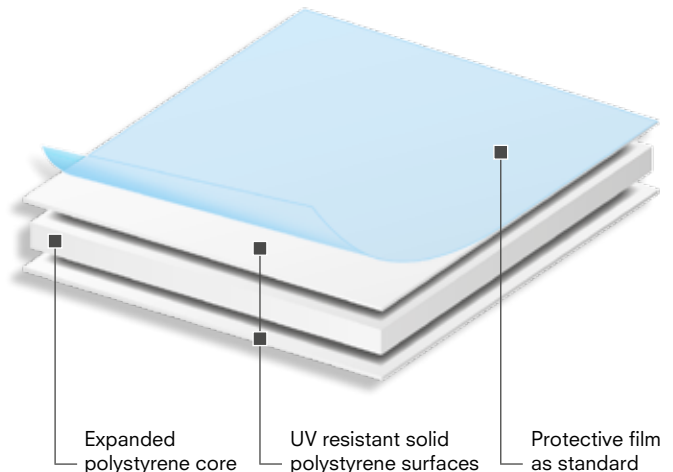
Shop signs in the IKEA store in St. Petersburg, Russia
Shop decoration in the German department store chain, Galeria Kaufhof
POS/POP displays, created by: www.blickpunkt.se
SMART-X® application – connector / folding technique



SMART-X®

PRODUCT RANGE

Colour	<input type="checkbox"/> white	
Thickness	5 mm / 10 mm	19 mm
Standard formats (WxL)	1220 x 2440 mm	1220 x 2440 mm
	1220 x 3050 mm	1220 x 3050 mm
	2030 x 3050 mm	2030 x 3050 mm
Protective film	on one side	both sides



PRODUCT INFORMATION

Thickness		5 mm	10 mm	19 mm
Weight		1,13 kg/m ²	2 kg/m ²	3 kg/m ²
Flexural strength	EN ISO 178	12 MPa	8 MPa	5 MPa
E-modul (bending test)	EN ISO 178	650 MPa	400 MPa	200 MPa
Service temperature	-	up to 70°C		
Thermal expansion	DIN EN ISO 75-2	0,08 mm/(mK)		
Fire classification	UL 94	class 94HBF		

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, polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs), 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



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