

PLAZGAL SAN

EXTRUDED STYRENE ACRYLONITRILE SHEETS

SOLID SHEETS 



PLAZGAL SAN WEXTRUDED STYRENE ACRYLONITRILE (SAN) SOLID SHEETS

Plazgal SAN sheets are characterized by good optical properties, low weight and outstanding surface. They are easy to handle, to vacuum form and show a very good dimensional stability.

PLAZGAL SAN transparent Styrene-Acrylonitrile copolymer sheets are an excellent solution when an improved heat, chemical and weathering performance is required compared to Polystyrene.

Structural design costs can be saved, due to its high modulus of elasticity and lower density, compared to the other transparent thermoplastics.

Available with two sides UV protection, with excellent outdoor weathering performance.

Applications



Swimming Pools



Glazing



Industrial Doors



Shower Rooms



Hobby Greenhouse

Main advantages

- Lightweight. Lower density than PC and PMMA (1.08 kg/cm³)
- High stiffness, Highest stiffness/weight and strength/weight ratio.
- Good transparency
- Good thermal resistance
- Better impact than PS
- Good chemical resistance
- Can be UV protected (PLAZGAL SAN DCX) offering good weathering and ageing resistance.
- Fully recyclable
- Environment friendly-100% recyclable
- REACH and RoHS declarations.

Properties	Test Method		SI Units	Value
	ISO	ASTM		
General Properties				
Density	1183	D-792	Kg/cm ³	1.08
Light Transmission		D-1003	%	86-89
Refractive Index	R489	D542	index	1.57
Water Absorption		D570	%	0.2
Mechanical Properties				
Tensile Strength at Break	R527-2	D638	MPa	70
Tensile Modulus	R527-2	D638	MPa	3,700
Elongation at Break	R527-2	D638	%	2
Flexural Modulus	R178	D790	MPa	3,700
Flexural Strength	R178	D790	MPa	97
Rockwell Hardness	2039-2			M83
Impact Strength (Charpy notched)	R180	D256	kJ/m ²	1.5
Impact Strength (Charpy Un-notched)	R180	D256	kJ/m ²	14
Thermal Properties				
Vicat Softening Point	306/B50	ISO	°C	101
Deflection Temperature Under Load 1.8 Mpa	75-2/A	ISO	°C	101
Max. Service Temperature (short cycle operation)			°C	85
Thermal Conductivity		DIN 52612	W (m °K)	0.17
Coefficient of Linear Thermal Expansion (parallel)	11359	D696	1/°C	5-7X10 ⁻⁵
Flammability	1210	UL/94	class	HB (1.6 mm)

Dimensions

Thickness 1.5 – 5.0 mm

Width 1000, 1250, 1500 and 2050 mm

Length 500 – 6000 mm

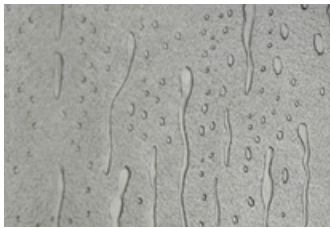
All sheets are also available cut to size, according to customer requirements

Colors Transparent, opal, diffuser, brown and black.

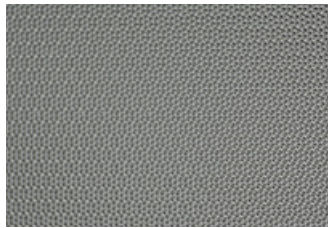
Grades Plazgal SAN DCX – double coextruded UV protected sheets – provide an extra protection to weathering and environmental conditions.

Embossing Patterns

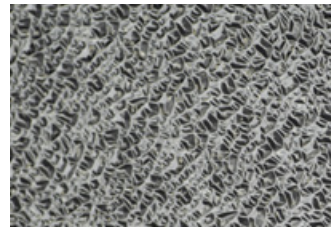
Plazgal PS sheets are available with different embossing patterns (limited to specific thicknesses and sizes)



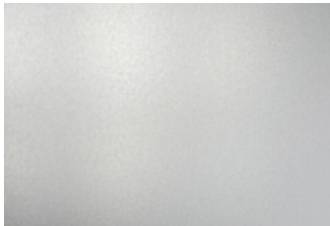
Aqua



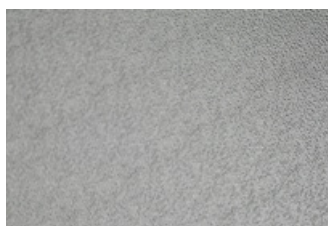
Pinspot



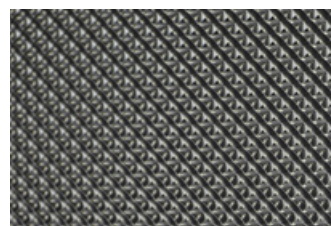
Cracked Ice



Non Reflective



G-Tech



K-12

All information, recommendations or technical advice given in this technical sheet, is given in good faith, to the best of our knowledge and based on our present experience and procedures. However, no liability or other legal responsibility is assumed for the full adequacy, accuracy or completeness of this information.

We reserve the right to make any changes, according to technological progress and further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods.

Product design using Plazgal PS sheets must be carried out only by qualified experts in the sole responsibility of the customer. Performance should be verified by testing, carried out only by qualified experts in the sole responsibility of the customer.