

PLAZGAL SAN

EXTRUDED STYRENE ACRYLONITRILE SHEETS

SOLID SHEETS 



PLAZGAL SAN EXTRUDED STYRENE ACRYLONITRILE (SAN) SOLID SHEETS

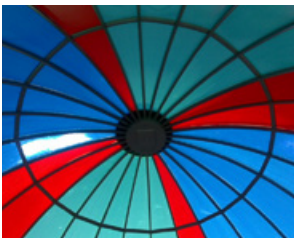
Plazgal SAN sheets are characterized by good optical properties, low weight and outstanding surface. They are easy to handle, to vacuum form and show a very good dimensional stability.

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

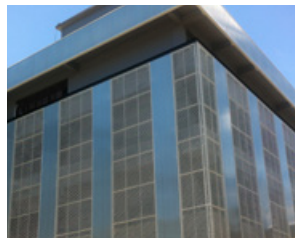
Structural design costs can be saved, due to its high modulus of elasticity and lower density, compared to the other transparent thermoplastics.

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

Applications



Industrial (door) glazing



Double glazing



Advertising



Displays



Flat or curved shower screens



Greenhouse glazing



Room dividers



Vacuum forming

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.

Typical Properties	Method	Units	Plazcryl (R7000)
General			
Density	ASTM D-792	Kg /cm ³	1.08
Light Transmission	ASTM D-1003	%	86-89
Refractive index	ASTM D542	index	1.57
Water absorption	ASTM D570	%	0.2
Mechanical			
Tensile Strength (break)	ISO 527-2	MPa	70
Tensile Module	ISO 527-2	MPa	3,700
Elongation at break	ISO 527-2	%	2
Modulus of elasticity	ISO 178	MPa	3,700
Flexural strength	ISO 178	MPa	97
Rockwell hardness			M83
Impact strength (Charpy unnotched)	ISO 180	kJ/m ²	1.5
Impact strength (Charpy Un-notched))	ISO 180	kJ/m ²	14
Thermal			
Vicat softening point	ISO 306/B50	°C	101
Temperature of deflection under load 1.8 Mpa	ISO 75-2/A	°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)	ISO 11359	1/°C	5-7X10 ⁻⁵
Flammability			
	UL/94	class	HB (1.6 mm)

Please note that the technical values given in the table are typical values for guidance and they are subjected to certain variability.

Dimensions

Thickness 1.5 – 5.0 mm

Width 1000, 1250, 1500 and 2050 mm

Length 500 – 6000 mm

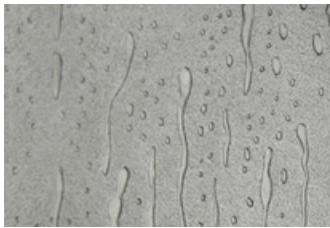
All sheets are also available cut to size, according to customer requirements

Colors Transparent, opal, diffuser, brown and black.

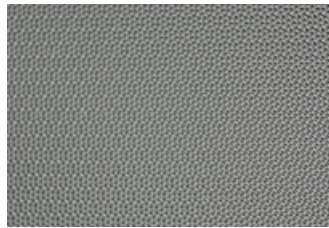
Grades Plazgal SAN DCX – double coextruded UV protected sheets – provide an extra protection to weathering and environmental conditions.

Embossing Patterns

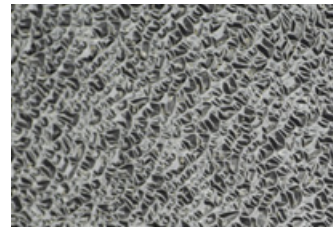
Plazgal PS sheets are available with different embossing patterns (limited to specific thicknesses and sizes)



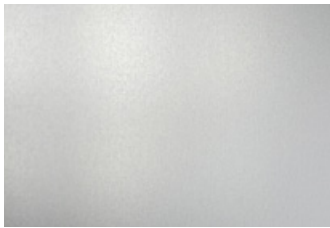
Aqua



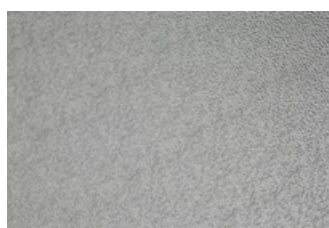
Pinspot



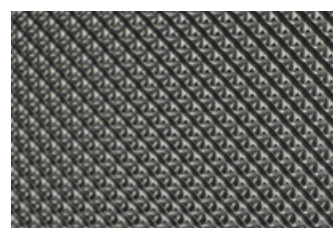
Cracked Ice



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.