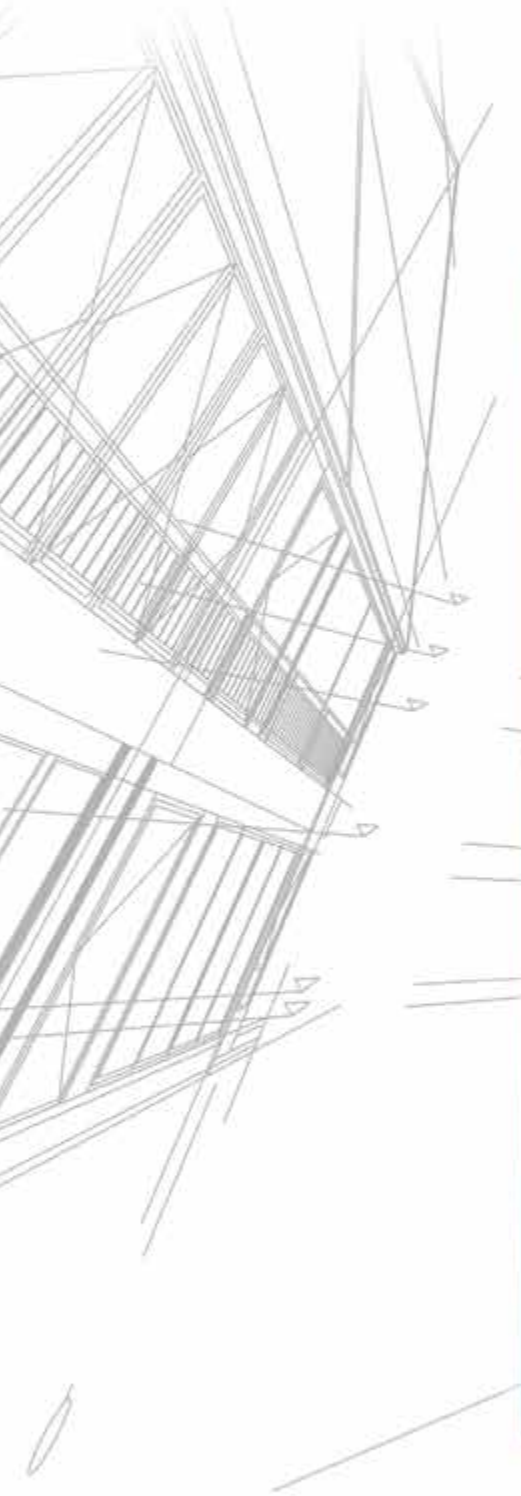


# PLAZGAL SAN

## EXTRUDED STYRENE ACRYLONITRILE SHEETS

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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.

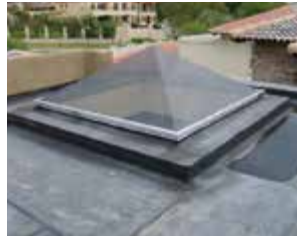
Structural design costs can be saved, due to its high modulus of elasticity and lower density, compared to the other transparent thermoplastics.

The sheets can be used in outdoor application and are resistant to temperature fluctuations. Plazgal SAN is also available without a special UV-resistant finish.

## Applications



Swimming Pools



Glazing



Industrial Doors



Shower Rooms



Hobby Greenhouse

## Main advantages

- Lightweight. Lower density than PC and PMMA (1.08 kg/cm<sup>3</sup>)
- High 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      |                    |                      |
| <b>General Properties</b>                          |             |           |                    |                      |
| Density  | 1183        | D-792     | Kg/cm <sup>3</sup> | 1.08                 |
| Light Transmission                                 |             | D-1003    | %                  | 86-89                |
| Refractive Index                                   | R489        | D542      | index              | 1.57                 |
| Water Absorption                                   |             | D570      | %                  | 0.2                  |
| <b>Mechanical Properties</b>                       |             |           |                    |                      |
| 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 <sup>2</sup>  | 1.5                  |
| Impact Strength (Charpy Un-notched)                | R180        | D256      | kJ/m <sup>2</sup>  | 14                   |
| <b>Thermal Properties</b>                          |             |           |                    |                      |
| Vicat Softening Point                              | 306/B50     | ISO       | °C                 | 106                  |
| Deflection Temperature Under Load 1.8 Mpa          | 75-2/A      | ISO       | °C                 | 98                   |
| 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 <sup>-5</sup> |
| Flammability                                       | 1210        | UL/94     | class              | HB (1.6 mm)          |

## Dimensions

**Thickness** 1.5 – 6.0 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.

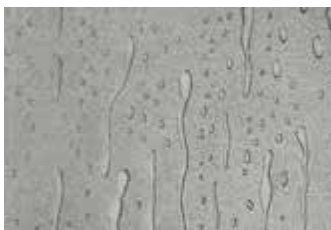
## Grades

Plazgal SAN

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



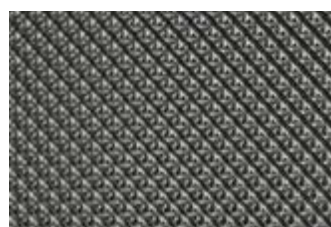
Cracked Ice



Non Reflective



G-Tech



K-12

DISCLAIMER: The data in this advertisement are provided in good faith and constitute general information without commitment and no warranty is given or implied. Our plastics products are a combustible thermoplastic that complies with various and national international standards, as customary in each country. Avoid exposure to excessive heat or aromatic cleaning solvents. Normal fire precautions should be taken to protect against combustion.

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