

# Plazgal SAN DCX

Extruded Styrene Acrylonitrile (SAN) copolymer sheets



## Plazgal SAN DCX - double co-extruded UV protected sheets

### PRODUCT OVERVIEW

Plazgal SAN DCX sheets are characterized by good optical properties and outstanding surface. The Plazgal SAN DCX is easy to handle, to vacuum form and show a very good dimensional stability. Typical for Plazgal SAN DCX sheets is their very good chemical resistance: particularly resistance to oils, fats and common bleaching agent as well as some solvents. The sheets can be used in outdoor application and are resistant to temperature fluctuations.

Due to the greater flexural modulus compared to other transparent plastic sheets and its lower density, structural design costs can be saved.

Plazgal SAN DCX material also combines the following excellent properties:

- High softening point
- Low water absorption
- High stiffness
- Low density (1.08 kg/cm<sup>3</sup>)
- Fully recyclable

### PRODUCT RANGE

- Colours: Clear and Opal. Special colours: Black, available upon request, subject to special conditions.
- Standard thicknesses range from 1.5 to 8 mm.
- Embossed sheets are also available, subject to special conditions.
  
- Plazgal SAN is also available without a special UV-resistant finish.



### APPLICATIONS

- Industrial (door) glazing
- Double glazing
- Swimming pools glazing
- Displays
- Flat or curved shower screens
- Greenhouse glazing
- Room dividers
- Vacuum forming
- Advertising

### Sizes

Max width - 2100mm

Standard length - 3050mm

Max length - up to 7000mm

Covered with protective PE film on both sides



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## Technical Specifications

Properties	Test Method	SI Units	Value
<b>General Properties</b>		<b>ASTM</b>	
Density	D-792	Kg/cm <sup>3</sup>	1.08
Light Transmission	D-1003	%	86-89
Refractive index	D542	index	1.57
Water absorption	D570	%	0.2
<b>Mechanical Properties</b>			
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 notched)	ISO 180	KJ/m <sup>2</sup>	1.5
Impact strength (charpy Un-notched)	ISO 180	KJ/m <sup>2</sup>	14
<b>Thermal Properties</b>			
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 <sup>-5</sup>
<b>Flammability</b>	UL/94	class	HB (1.6 mm)

**Plazit 2001**

plazit@plazit-polygal.com

www.plazit-polygal.com

