



A Division of G&D Technologies, L.L.C.

High Precision Solaris™ Cast Acrylic Sheets

- Broad - Band Filters
- Selective Filters

SOLARIS PRECISION
CAST ACRYLIC SHEET

PERFORMANCE COATINGS INTERNATIONAL

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sales@pcoatingsintl.com

High Precision

Solaris™ Cast Acrylic Sheets

- Excellent weatherability
- High transparency
(clear sheet: 92% light transmission)
- Excellent optical quality
- Easy to machine
- Excellent uniform thickness
- Withstand high thermal and chemical stress
- Available abrasion resistant
clear and anti-glare hard coats

Displaying

New

Dimensions

What you see is what you get

Our stock exceeds 60 different colors in thickness ranging from 0.5 mm to 4.0 mm.

Solaris filters are supplied as broad band and selection filters.

Special colors and thicknesses can be supplied upon request






An experienced market leader

The comprehensive PCI know-how has been developed since 1955. Through the years the company invested significant resources in coating processing and polymer technology. Today PCI is a world leader in high performance UV-curable coatings, optical filters for filtering light, and EMI shielding in opto-electronic devices.

The Solaris™ PMMA filters are recognized for their outstanding optical and mechanical properties that have proven its value in a wide range of products.



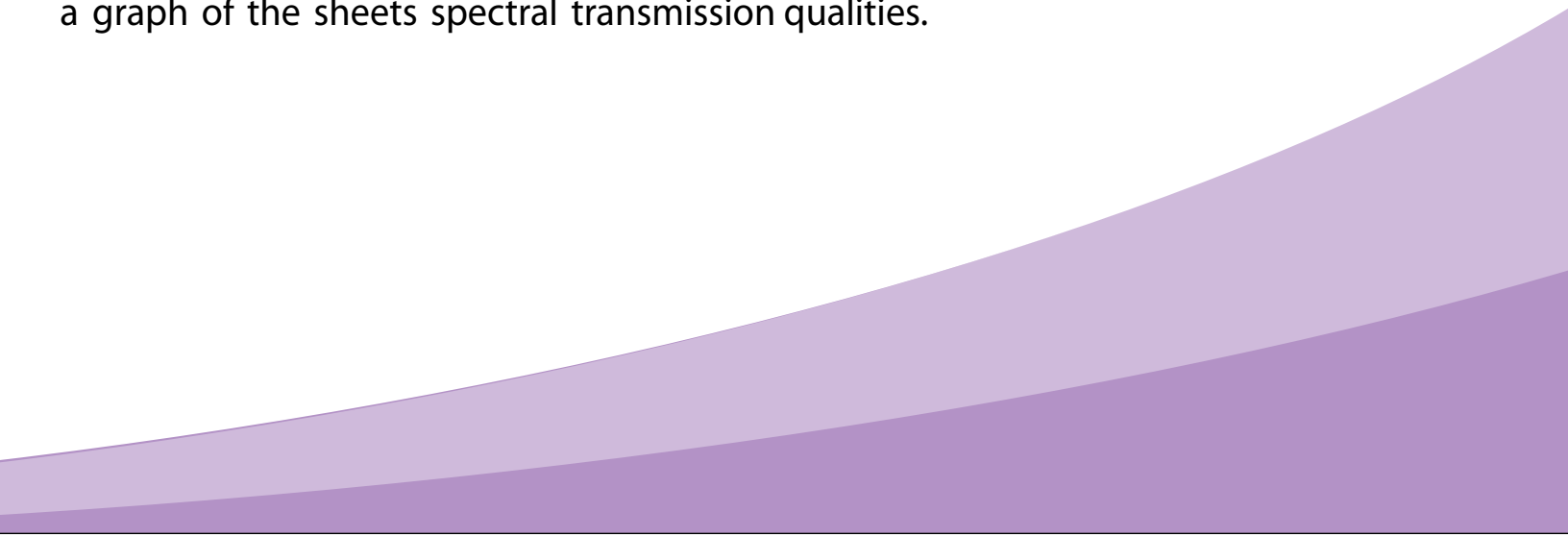


Casting your ideas

The sheets are made in float glass casts. This casting process results in a perfect optical surface, without any distortion of the display signal. More than 50 years experience and know-how regarding polymerization techniques enable us to supply sheets with tolerances down to ± 0.1 mm.

Quality control

PCI's production undergoes continuous thorough quality control according to ISO-9001: 2000 standards. All color combinations are defined with coordinates in a chromaticity diagram. With our computer-controlled optimization model, PCI can provide almost all known color mixtures. Finished sheets are tested in a spectrophotometer, and the coordinate points of the color in the chromaticity diagram can be printed out together with a graph of the sheets spectral transmission qualities.





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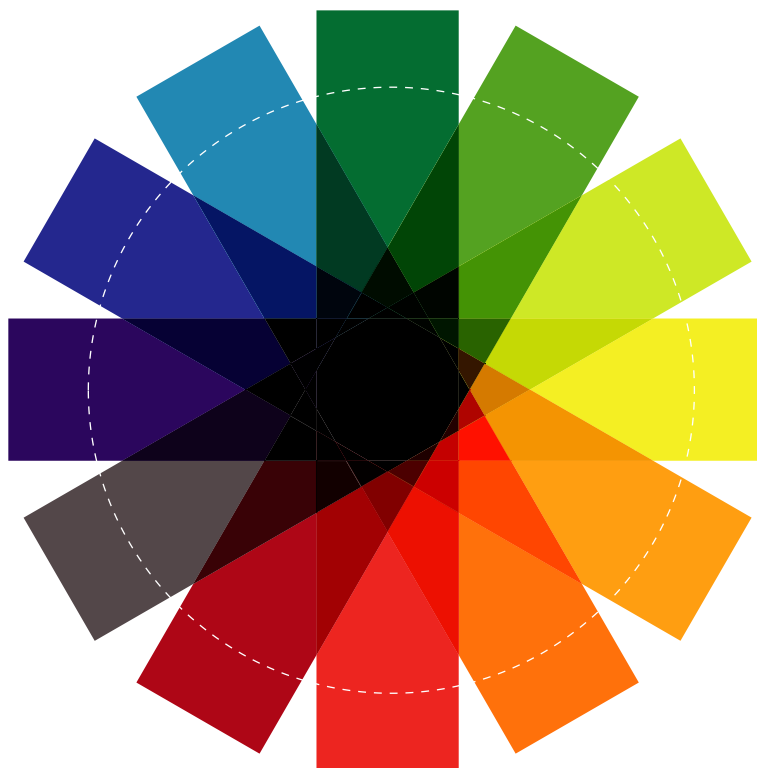
Solaris™ Technical data

	Test	Unit	Values
Mechanical properties:			
Tensile strength	DIN 53455	N/mm ²	65-68
Compressive strength	DIN 53454	N/mm ²	125
Flexural strength	DIN 53452	N/mm ²	120
Impact strength	DIN 53453	N/mm ²	12
Modulus of elasticity	DIN 53457	N/mm ²	3.000
Elongation at break	DIN 53455	%	3-4
Hardness	DIN 53456	N/mm ²	175
Thermal properties:			
Heat stability-Vicat, clear 3 mm	DIN 53460	°C	115
Forming temperature		°C	150-170
Coefficient of linear thermal expansion	VDE 0304	mm/m°C	0.08
Specific heat		kJ/kg K	1.46
Thermal conductivity		W/m K	0.186
Electric properties:			
Dielectric strength	DIN 53481	kV/mm	40
Volume resistivity	DIN 53482	ohm cm	10 ¹⁵
Dielectric constant	DIN 53483		3.4
Dissipation factor	DIN 53483		0,06
Other properties:			
Specific gravity	DIN 53479	g/cm ³	1.18-1.19
Water absorption	at 20° C 24 hrs	%	0.17
Light transmission (clear)	450nm	%	92
Refractive index	ISO 489		1.49

Dimensions:	1500x1000mm.
Standard thickness:	0.5 - 0.8 - 1.0 - 1.5 - 2.0 - 2.5 - 3.0 - 4.0 mm Other thicknesses available upon request.
Standard colours:	60 different colors. Apart from contrast filters, we also produce infra-red filters & diffusion filters (backlighting). VFD-filter, LCD-filters, EMC-filters, diffusion and reflection filters. Special colors manufactured to customer's specifications.



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