

# PMG® AquaGlas®



Piedmont Marine Grade® AquaGlas® is an impact modified acrylic sheet manufactured specifically for the semi-rigid marine enclosure market. AquaGlas® offers excellent clarity, dimensional stability, and superior weathering performance for high-end enclosures.

## Features and Benefits

Feature / Benefit	AquaGlas®	Polycarbonate
Weatherability	Excellent weatherability with no impact reduction	Yellows when exposed to sunlight, lessens impact strength after exposure
Forming	Better melt strength	Low melt strength
Forming Temperature	Wide range (275°F - 375°F)	Distinct forming temperature
Optical Clarity	Very Clear	Less clear, hazy, shows distortion
Cost	40% less than polycarbonate	Expensive



Contact us today!

800.277.7898 Toll Free | 704.597.8200  
5010 West W.T. Harris Blvd. | Charlotte, NC 28269



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## Technical Properties

Property	Units	Test Method	Value Range				
			30%	50%	70%	100%	
<b>Optical</b>							
Light Transmittance	%	ASTM D1003	92	92	92	90	90
Percent Haze	%	ASTM D1003	2	2	2	<3	<3
<b>Mechanical</b>							
Izod Impact Strength	ft.lbs./in.	ASTM D256	0.4	0.6	0.7	0.9	1.1
Tensile Modulus of Elasticity	psi	ASTM D638	490,000	376,000	340,000	304,000	250,000
Tensile Strength @ Yield	psi	ASTM D696	11,030	9,000	8,000	7,100	5,600
Flexural Strength @ Yield	psi	ASTM D790	17,000	13,690	12,000	10,610	8,300
Rockwell Hardness Method A		ASTM D785	95	78	68	59	46
<b>Thermal</b>							
Deflection Temperature (264 psi)	°F	ASTM D648	203	198	1.94	190	185
Coefficient of Thermal Expansion	in/(in-°F)	ASTM D696	$3.0 \times 10^{-5}$	$3.5 \times 10^{-5}$	$4 \times 10^{-5}$	$4.5 \times 10^{-5}$	$5 \times 10^{-5}$
Self Ignition Temperature	°F	ASTM D1929	833	>850	>850	>850	>850
Burning Rate	in./min.	ASTM D635	1.019	0.85	1.25	1.53	1.97
Smoke Density Rating	%	ASTM D2843	3.4	5.20	8.50	11.5	16.5
<b>Processing</b>							
Density - Specific Gravity		ASTM D792	1.19	1.18	1.17	1.16	1.15
Moisture - Water Absorption	% wt. gain	ASTM D570	0.4	0.3	0.3	0.3	0.3
Dimensional - Molding Shrinkage	mils./in.	ASTM D955	2-6	3-6	3-6	3-6	3-6

## Standard Sheet Sizes

.080" x 51" x 100"

.080" x 60" x 120"

Piedmont Plastics® has your marine solutions. Complete all of your projects from block out panels to bulkheads with our line of substrates and accessories. Piedmont carries a comprehensive assortment of the best brands and breadth of products to service your plastic needs. With over 40 years of industry experience, Piedmont is a leading supplier of plastic sheet, rod, tube, and film throughout North America.



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