

# SG5 Acrylic Sheet



OPTIX SG5 acrylic sheet provides excellent forming characteristics with detailed vacuum definition, high optical clarity and superb weatherability. SG5 is stocked in various thicknesses, sheet sizes and colors. SG5 products are available in sheet and reels.

## Applications

Tabletops and counters, concession stands, equipment, furniture, healthcare case goods, indoor and outdoor cabinets, kick plates, lockers, outdoor kitchens, playgrounds, pool areas

## Typical Properties

Property	Test Method	Units	Values
<b>PHYSICAL</b>			
Specific gravity	ASTM D 792	-	1.15-1.19
Light transmission – total	ASTM D 1003	%	90-92
Light transmission – haze	ASTM D 1003	%	<3
Water absorption	ATM D 570	%	0.4
Mold shrinkage	ASTM D 955	Mils/in	2-6
<b>MECHANICAL</b>			
Tensile strength	ASTM D 638	psi	11,030
Tensile modulus	ASTM D 638	psi	490,000
Flexural strength	ASTM D 790	psi	17,000
Izod impact strength – notched	ASTM D 256	Ft-lb./in	0.4
Rockwell hardness	ASTM D 785	-	95
<b>THERMAL</b>			
Max. recommended continuous service	-	°F	170-190
Softening temperature	-	°F	210-220
Deflection temp @ 264 psi	ASTM D 648	°F	203
Coefficient of thermal expansion	ASTM D 696	in/(in-°F) x 10 <sup>-5</sup>	3.0-5.0
Flammability (burning rate)	ASTM D 635	In/minute	1.0
Flammability	UL94	-	HB
Smoke density rating	ASTM D 2843	%	3.4
Self-ignition temp	ASTM D 1929	°F	833

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.