

OPTIX ACRYLIC ROLL STOCK

OPTIX SG Acrylic, DURAPLEX SG05 and SG10 are available in roll stock for the sign market. Roll stock allows for better total sheet usage, less seams and joints in finished signs, and provides better inventory space utilization. OPTIX roll stock is available in 0.118" - 0.236", in widths from 30" - 105", length for 3', 4', 5', 6' and 8'. Run-to-Size is available. Call Customer Service for details.

APPLICATIONS

Point-of-purchase displays, lighting, signage, picture framing, glazing, transportation

TYPICAL PROPERTIES

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D792	-	1.15 - 1.19
Light Transmission- total	ASTM D1003	%	90 - 92
Light Transmission- haze	ASTM D1003	%	<3
Water Absorption	ASTM D570	%	0.4
Mold Shrinkage	ASTM D955	Mils/in	2-6
MECHANICAL			
Tensile Strength	ASTM D638		
SG		psi	11,030
SG05		psi	8,000
SG10		psi	5,600
Tensile Modulus of Elasticity	ASTM D638		
SG		psi	490,000
SG05		psi	340,000
SG10		psi	250,000
Flexural Strength	ASTM D790		
SG		psi	17,000
SG05		psi	12,000
SG10		psi	8,300
Izod Impact Strength - Notched	ASTM D256		
SG		ft-lb./in	0.4
SG05		ft-lb./in	0.7
SG10		ft-lb./in	1.1
Rockwell hardness	ASTM D785		
SG		-	95
SG05		-	68
SG10		-	46
THERMAL			
Maximum Recommended			
Continuous Service Temperature	-	°F	170-190
Softening Temperature	-	°F	210-220
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D648		
SG		°F	203
SG05		°F	194
SG10		°F	185
Coefficient of Thermal Expansion	ASTM D696	in/(in-°F) x 10 ⁻⁵	3.0 - 5.0
Flammability (Burning Rate)	ASTM D635		
SG		in/minute	1.0
SG05		in/minute	1.25
SG10		in/minute	1.97
Flammability	UL 94	-	HB
Smoke Density Rating	ASTM D2843		
SG		%	3.4
SG05		%	8.5
SG10		%	16.5
Self-Ignition Temperature	ASTM D1929	°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.