

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 3.0mm - 6.0mm, in widths from 762mm - 2667, length for 914mm, 1219mm, 1524mm, 1829mm and 2438mm. Run-to-Size is available. Call Customer Service for details.

APPLICATIONS

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

TYPICAL METRIC 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	Per mm	0.051-0.152
MECHANICAL			
Tensile Strength	ASTM D638		
SG		MPa	76
SG05		MPa	55
SG10		MPa	39
Tensile Modulus of Elasticity	ASTM D638		
SG		MPa	3380
SG05		MPa	2340
SG10		MPa	1720
Flexural Strength	ASTM D790		
SG		MPa	117
SG05		MPa	83
SG10		MPa	57
Izod Impact Strength - Notched	ASTM D256		
SG		J/cm	0.21
SG05		J/cm	0.37
SG10		J/cm	0.59
Rockwell hardness	ASTM D785		
SG		-	95
SG05		-	68
SG10		-	46
THERMAL			
Maximum Recommended			
Continuous Service Temperature	-	°C	77-88
Softening Temperature	-	°C	99-104
Deflection Temperature @ 1.82 MPa	ASTM D648		
SG		°C	95
SG05		°C	90
SG10		°C	85
Coefficient of Thermal Expansion	ASTM D696	cm/cm/°C	5.4-9.0 x10 ⁻⁵
Flammability (Burning Rate)	ASTM D635		
SG		cm/minute	2.54
SG05		cm/minute	3.18
SG10		cm/minute	5.0
Flammability	UL 94	-	HB
Smoke Density Rating	ASTM D2843		
SG		%	3.4
SG05		%	8.5
SG10		%	16.5
Self-Ignition Temperature	ASTM D1929	°C	445

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.