

Sign Grade Roll Stock & Flat Acrylic Sheet

Plaskolite offers three grades of acrylic:

- SG - Optix Acrylic
- SG05 - Duraplex Medium Impact Modified Acrylic
- SG10 - Duraplex High Impact Modified Acrylic



Roll Stock Advantages:

- Unlimited lengths, no seams in finished products
- Superior forming characteristics—no predrying, detailed vacuum definition, faster cycle times when compared to continuous cast acrylic
- Better weatherability, color, gloss and clarity than polycarbonate
- Cost competitive when compared to other rigid sign face materials
- Better, total sheet usage—less scrap due to custom size roll widths and lengths

Thicknesses	Length
.118"	500'
.150"	400'
.177"	350'
.236"	250'

Widths	Colors
30" - 105"	Clear
	White 7328

Custom roll widths, lengths, thicknesses and colors available.

Call for quotation and delivery information.

Masking offered in 2 mil clear polymasking, papermask or 3 mil formable film.

SG-OPTIX® General Purpose Acrylic Flat Sheet - Clear and Colors Available

Item#	Description	Size	Skid Qty
1X17503A	.118" SG 7328 White/Papermasked	48"x96"	80
1X52199A	.118" SG 7328 White	49"x97"	80
1X06118A	.118" SG 3015 White	49"x97"	80
1X27260A	.177" SG 7328 White/Papermasked	48"x96"	57
1X06119A	.177" SG 3015 White	49"x97"	57
1X15163A	.177" SG 7328 White	48"x120"	30
1X25097A	.177" SG 7328 White	51"x100"	57
1X75128A	.177" SG 7328 White	75"x100"	30
1X27530A	.177" SG 7328 White	75"x125"	25
1X35504A	.220" 2447 White/Papermasked	48"x96"	45
1X35506A	.220" 2447 White/Papermasked	48"x96"	45
1X06120A	.220" 3015 White	49"x97"	45

SG05-DURAPLEX® Medium Impact Acrylic Flat Sheet - Clear and Colors Available

Item#	Description	Size	Skid Qty
1AG9811A	.177" SG05 Clear	51"x100"	25
1AG9812A	.177" SG05 Clear	75"x100"	25
1AG9813A	.177" SG05 Clear	75"x125"	25
1X11203A	.177" SG05 7328 White	51"x100"	25
1X11202A	.177" SG05 7328 White	75"x100"	25
1X11205A	.177" SG05 7328 White	75"x125"	25

Orientation/Shrinkage/Reversion:

SG Sheet exhibits the lowest shrinkage of any extruded acrylic sheet on the market. Cell cast or continuous cast sheet, depending on the manufacturer, may shrink from 0% to 2% in both directions. Plaskolite's sheet performs much like cell cast or continuous cast sheet in relationship to shrinkage.

Roll Stock Sign Grade Acrylic Sheet

Physical Property & Performance Summary

Property	ASTM	UNITS	OPTIX® DURAPLEX®		
			SG	SG-05	SG-10
Optical					
Light Transmittance	D-1003	%	92	92	90
Percent Haze	D-1003	%	2	2	<3
Mechanical					
Izod Impact Strength	D-256	ft.-lbs./in.	0.4	0.7	1.1
	D-256	ft.-lbs./in.	0.2	0.2	0.5
Tensile Modulus of Elasticity	D-638	PSI	490,000	340,000	250,000
Tensile Strength @ Yield	D-638	PSI	11,030	8,000	5,600
Flexural Strength @ Yield	D-790	PSI	17,000	12,000	8,300
Rockwell Hardness Method A	D-785		95	68	46
Thermal					
Deflection Temperature (264 psi)	D-648	°F	203	194	185
Coefficient of Thermal Expansion	D-696	in./in.-°F	3.0 x 10 ⁻⁵	4 x 10 ⁻⁵	5 x 10 ⁻⁵
Processing					
Density	D-792		1.19	1.17	1.15
Moisture	D-570	% wt. gain	0.4	0.3	0.3
Dimensional	D-955	mils./in.	2 - 6	3 - 6	3 - 6

Suggested Thermoforming Conditions

Property	UNITS	OPTIX® DURAPLEX®			Cast Acrylic
		SG	SG-05	SG-10	
Thermoforming for Sheet Thickness 0.100" to 0.375"					
Optimal Forming Temperature	°F	320	315	310	380
Forming Temperature Range	°F	270-350	270-350	270-350	350-390
Heating Time	Minutes	1 - 10	1 - 10	1 - 10	2 - 25
Two Sided Infrared					
Cooling Time	Minutes	0.5 - 4	0.5 - 4	0.5 - 4	1 - 7
Optimal Mold Temperature	°F	180	175	170	190
Free Shrinkage at Forming Temperature					
Machine Direction	%	1 - 3	1 - 3	1 - 3	0 - 2
Transfer Direction	%	0	0	0	0 - 2

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 determine the suitability of our materials and suggestions before adopting them on a commercial scale.