

PLASKOLITE, INC.

DURAPLEX Impact Modified Acrylic Properties

Physical	Test method	Units	DURAPLEX 30%	DURAPLEX OPTIX SG05 (50%)	DURAPLEX 70%	DURAPLEX OPTIX SG10 (100%)
Specific Gravity/Relative Density	ASTM D-792		1.18	1.17	1.16	1.15
Light Transmission -Total	ASTM D-1003	%	92	92	90	90
Light Transmission - Haze	ASTM D-1003	%	2	2	>3	>3
Water Absorption	ASTM D-570	% By wt	0.3	0.3	0.3	0.3
Mold Shrinkage	ASTM D-955	mils/in	3-6	3-6	3-6	3-6

Mechanical	Test method	Units	DURAPLEX 30%	DURAPLEX OPTIX SG05 (50%)	DURAPLEX 70%	DURAPLEX OPTIX SG10 (100%)
Tensile Strength	ASTM D-638	psi	9,000	8,000	7,100	5,600
Tensile Modulus of Elasticity	--	psi	376,000	340,000	304,000	250,000
Flexural Strength	ASTM D-790	psi	13,690	12,000	10,610	8,300
Izod Impact Strength – Molded Notch	ASTM D-256	ft-lb/in Notch	0.6	0.7	0.9	1.1
Ball Drop Impact			Pass	Pass	Pass	Pass
Rockwell Hardness	ASTM D-785		M-78	M-68	M-59	M-46

CURBELL
PLASTICS

1-888-CURBELL

www.curbellplastics.com

Curbell Plastics is a proud supplier of Plaskolite materials.

PLASKOLITE, INC.

Thermal	Test method	Units	DURAPLEX 30%	DURAPLEX OPTIX SG05 (50%)	DURAPLEX 70%	DURAPLEX OPTIX SG10 (100%)
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D-648	°F	198	194	190	185
Coefficient of Thermal Expansion	ASTM D-696	in/(in-°F) x 10 ⁻⁵	3.5	4	4.5	5
Flammability (Burning Rate)	ASTM D-635	In/minute	0.85	1.25	1.53	1.97
Flammability	UL 94		HB	HB	HB	HB
Smoke Density Rating	ASTM D-2843	%	5.2	8.5	11.5	16.5
Self-Ignition Temperature	ASTM D-1929	°F	>850	>850	>850	>850

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.