

PLASKOLITE

DURAPLEX Impact Modified Acrylic

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

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

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

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.

Questions? Please contact Plaskolite Customer Support 800-848-9124

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Call: 1 (866) 437-7427

Email: info@polymershapes.com