

# PLASKOLITE

## VIVAK

Thermal	TEST METHOD	UNITS	VIVAK PETG
Self-Ignition Temperature	ASTM D-1929	°F	880
Smoke Developed Index	ASTM E-84		450
Smoke Density Rating	ASTM D-2843	%	53.8
Deflection Temperature @ 66 psi (0.45 MPa)	ASTM D-648	°F	164
Coefficient of Thermal Expansion	ASTM D-696	in/(in-°F) x 10 <sup>-5</sup>	3.8
Thermal Conductivity	ASTM C-177	BTU-ft/(hr-ft <sup>2</sup> -°F)	0.13
Flame Spread Index	ASTM E-84		85
Flammability	UL 94		HB
Glass Transition Temperature	ASTM D-3418	°F	178
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D-648	°F	157
Flammability (Burning Rate)	ASTM D-635	In/minute	0.06
Thermal Conductivity	ASTM E-1225	BTU-ft/(hr-ft <sup>2</sup> -°F)	0.13

Mechanical	TEST METHOD	UNITS	VIVAK PETG
Rockwell Hardness	ASTM D-785		R-115
Flexural Strength	ASTM D-790	psi	11,200
Drop Dart Impact	ASTM D-3763	ft-lbs	22
Shear Strength	ASTM D-732	psi	9,000
Izod Impact Strength – Molded Notch	ASTM D-256	ft-lb/in Notch	1.7
Compressive Strength	ASTM D-695	psi	8,000
Dielectric Constant @1kHz	ASTM D-150		2.6
Izod Impact Strength – Milled Notch	ASTM D-256	ft-lb/in Notch	1.2
Flexural Modulus of Elasticity	ASTM D-790	psi	310,000
Dielectric Constant @1mHz	ASTM D-150		2.4
Tensile Modulus of Elasticity	--	psi	320,000
Tensile Strength	ASTM D-638	psi	7,700
Dielectric Strength	ASTM D-149	volts/mil	410

Physical	TEST METHOD	UNITS	VIVAK PETG
Optical Refractive Index	ASTM D-542		1.57
Water Absorption	ASTM D-570	% By wt	0.2
Light Transmission - Haze	ASTM D-1003	%	1.0
Light Transmission -Total	ASTM D-1003	%	86
Specific Gravity/Relative Density	ASTM D-792		1.27

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

**PLASKOLITE**

Distributed by:  Polymershapes

Call: 1 (866) 437-7427

Email: info@polymershapes.com