

## PLASKOLITE

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
Glasss 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

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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

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