VIVAK PETG Sheet

Typical Properties

Physical	TEST METHOD	UNITS	VIVAK PETG
Specific Gravity/Relative Density	ASTM D792		1.27
Optical Refractive Index	ASTM D542		1.57
Light Transmission -Total	ASTM D1003	%	86
Light Transmission - Haze	ASTM D1003	%	1.0
Water Absorption	ASTM D570	%	0.2

Mechanical	TEST METHOD	UNITS	VIVAK PETG
Tensile Strength	ASTM D638	psi	7,700
Tensile Modulus of Elasticity	ASTM D638	psi	320,300
Flexural Strength	ASTM D790	psi	11,200
Flexural Modulus of Elasticity	ASTM D790	psi	310,000
Dielectric Constant @1kHz	ASTM D150		2.6
Dielectric Constant @1mHz	ASTM D150		2.4
Dielectric Strength	ASTM D149	volts/mil	410
Compressive Strength	ASTM D695	psi	8,000
Shear Strength	ASTM D732	psi	9,000
Izod Impact Strength – Molded Notch	ASTM D256	ft-lb/in Notch	1.7
Izod Impact Strength – Milled Notch	ASTM D256	ft-lb/in Notch	1.2
Drop Dart Impact	ASTM D3763	ft-lbs	22
Rockwell Hardness	ASTM D785		R-115

Thermal	TEST METHOD	UNITS	VIVAK PETG
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D648	°F	157
Deflection Temperature @ 66 psi (0.45 MPa)	ASTM D648	°F	164
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	$3.8x10^{-5}$
Thermal Conductivity	ASTM E1225	BTU-ft/ft^2/hr/°F	0.13
Flammability (Burning Rate)	ASTM D635	in/minute	0.06
Flammability	UL 94		HB
Smoke Density Rating	ASTM D2843	%	53.8
Self-Ignition Temperature	ASTM D1929	°F	880
Flame Spread Index	ASTM E84		85
Smoke Developed Index	ASTM E84		450
Glass Transition Temperature	ASTM D3418	°F	178

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