

Plaskolite Vivak PETG Sheet

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , PETG Copolyester

Material Notes:

VIVAK offers a balance of physical properties and ease of fabrication. It is ideally suited for complex parts requiring fabrication, including deep thermoforming draws and precise molded-in details. It can be easily decorated by painting, silk screening or hot stamping. VIVAK is heavily used in the POP display and store fixture industries. VIVAK PETG is produced using resin that complies with FDA requirements for food contact applications. VIVAK is a transparent copolyester that offers a unique balance of physical properties and ease of fabrication. Data provided by the manufacturer, Plaskolite, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-Vivak-PETG-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Water Absorption	0.2 %	0.2 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D285
Tensile Strength	53.1 MPa	7700 psi	ASTM D638
Tensile Modulus	2.208 GPa	320.3 ksi	ASTM D638
Flexural Strength	77.2 MPa	11200 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Compressive Strength	55.2 MPa	8000 psi	ASTM D695
Shear Strength	62.1 MPa	9000 psi	ASTM D732

Thermal Properties	Metric	English	Comments
CTE, linear	68.4 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	38.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature -34.4 - -1.11 $^\circ\text{C}$	@Temperature -30.0 - 30.0 $^\circ\text{F}$	
Thermal Conductivity	0.225 W/m-K	1.56 BTU-in/hr-ft ² - $^\circ\text{F}$	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	73.3 $^\circ\text{C}$	164 $^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	69.4 $^\circ\text{C}$	157 $^\circ\text{F}$	ASTM D648
Glass Transition Temp, Tg	81.1 $^\circ\text{C}$	178 $^\circ\text{F}$	ASTM D3418

Flammability UL 94 Thermal Properties	HB Metric	HB English	Comments
Flame Spread	1.52 mm/min	0.0600 in/min	ASTM D635
Flame Spread Index	85	85	ASTM E84

Optical Properties	Metric	English	Comments
Refractive Index	1.57	1.57	nD; ASTM D542
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	86 %	86 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.4	2.4	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Constant	2.6	2.6	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.1 kV/mm	410 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Self Ignition Temperature	880°F	ASTM D1929
Smoke Developed Index	450	ASTM E84

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