



VIVAK® PETG (Bayer)

Transparent, co-polyester PETG sheet

VIVAK® PETG sheet is a transparent co-polyester sheet product that offers a unique 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. In addition, VIVAK® sheet is produced using resin that complies with FDA regulations for food contact applications. It is easily decorated by painting, silk screening, or hot stamping. Applications include shelving, greeting card displays, revolving merchandise racks, indoor signs, point of purchase displays, menu boards, photo frames, and slat wall fixtures. Heavy gauge VIVAK® sheet is also used in prosthetic applications.

Typical Properties

Properties	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D792	-	1.27
Water Absorption, 24 hours	ASTM D570	%	0.2
Light Transmission	ASTM D1003	%	86
Refractive Index	ASTM D542		1.57
Haze	ASTM D1003	%	1.0
MECHANICAL			
Tensile Strength, Ultimate	ASTM D638		7,700
Tensile Modulus	ASTM D638	psi	320,300
Flexural Strength	ASTM D790	psi	11,200
Flexural Modulus	ASMT D790	psi	310,000
Shear Strength	ASTM D732	psi	9,000
Compressive Strength	ASTM D895	psi	8,000
Izod Impact Notched 0.125" @ 73 °F	ASTM D256	ft-lb/in	1.7
Izod Impact Notched 0.125" @ 32 °F	ASTM D256	ft-lb/in	1.2
Drop Dart Impact 0.250"	ASTM D3763	ft-lb/in	22
Rockwell Hardness	ASTM D785	R Scale	115
THERMAL			
Heat Deflection Temperature, @ 264 psi	ASTM D648	°F	157
Heat Deflection Temperature, @ 66 psi	ASTM D648	°F	164
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.8 x 10 ⁻⁵
Glass Transition Temperature	ASTM D3418	°F	178
ELECTRICAL			
Dielectric Constant @ 1kHz	ASTM D150	-	2.6
Dielectirc Constant @ 1mHz	ASTM D150	-	2.4
Dielectric Strength	ASTM D149	V/mil	410