



VIVAK® UV - PETG (Bayer)

Co-polyester PETG material with enhanced UV attributes

VIVAK® UV is a co-polyester material with enhanced UV attributes. This material is used primarily for indoor signage that may be exposed to UV light. VIVAK® UV Sheet is ideally suited for complex parts requiring fabrication, including deep thermoforming draws, and precise molded-in details. VIVAK® UV is easily decorated by painting, silk screening or hot stamping. Applications include indoor signs, point of purchase displays, menu boards. VIVAK® UV is not recommended for outdoor 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	83
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