

UV Resistance

VIVAK® UV Sheet is a modified transparent copolyester product that offers enhanced UV resistance. With impact strength unmatched by even the impact modified acrylics, VIVAK UV offers performance and economy combining toughness, high clarity and exceptional weatherability for extended product service life in outdoor applications. VIVAK UV Sheet thermoforms with ease producing excellent material distribution and part definition without predrying.

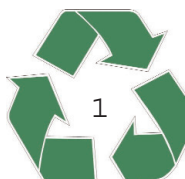
Applications

Fabricated, formed and silk screened outdoor signs

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	ASTM 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
Dielectric Constant @ 1mHz	ASTM D150	-	2.4
Dielectric Strength	ASTM D149	V/mil	410

Disclaimer

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