

Ease of Fabrication

VIVAK® Sheet is a transparent copolyester 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. VIVAK Sheet is offered in thickness from 0.020"- 0.500".

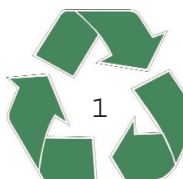
Applications

Typical applications include shelving, greeting card displays, revolving merchandise racks, indoor signs, point of purchase displays, menu boards, photo frames, and slatwall 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	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

The manner in which you use and the purpose to which you put and utilize our products, technical assistance, and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.



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VIVAKDS-0209

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