

VIVAK® -PETG

KEY FEATURES

- Offers Unique Balance of Physical Properties and Ease of Fabrication
- Manufactured with a Resin that Complies with the FDA Requirements for Food Contact
- Ideal for Applications that Require Deep Draws, Complex Die Cuts and Precise Molded in Details, Without Sacrificing Structural Integrity

DESCRIPTION

VIVAK® is transparent copolyester that offers a unique balance of physical properties and ease of fabrication. VIVAK® is the ideal material for applications that require deep draws, complex die cuts and precise molded-in details without sacrificing structural integrity. It is produced with a resin that complies with FDA requirements for food contact and can be easily decorated by painting, silk screening or hot stamping.

TYPICAL PROPERTY VALUES

| | Properties | Condition | Units | Value | ASTM Test |
|-------------|-------------------------|-----------|---------------------------|---------|-----------|
| Physical | Chemical Designation | | | PETG | |
| | Filler | | | | |
| | Density | | g/cm ³ | 1.27 | D792 |
| Mechanical | Tensile Modulus | @ 73 °F | PSI | 320,000 | D638 |
| | Tensile Strength | @ 73 °F | PSI | 7,700 | D638 |
| | Shear Strength | @ 73 °F | PSI | 9,000 | D732 |
| | Elongation @ Yld | @ 73 °F | % | | |
| | Elongation @ Brk | @ 73 °F | % | | |
| | Flexural Modulus | @ 73 °F | PSI | 310,000 | D790 |
| | Flexural Strength | @ 73 °F | PSI | 11,200 | D790 |
| | Compressive Modulus | @ 73 °F | PSI | | |
| | Compressive Strength | | PSI | 8,000 | D695 |
| | Izod Impact Strength | Molded | ft-lbs/in Notch | 1.7 | D256 |
| | Izod Impact Strength | Milled | ft-lbs/in Notch | 1.2 | D256 |
| | Rockwell Hardness | @ 73 °F | M (R) Scale | 115 | D785 |
| | Coefficient of Friction | Static | | | |
| | Wear (K) Factor | | in ³ /hr(l/PV) | | |
| Limiting PV | | psi-fpm | | | |

TYPICAL PROPERTY VALUES

| | Properties | Condition | Units | Value | ASTM Test |
|-------------------|-----------------------------|----------------|---------------------------------|------------------------|-----------|
| Thermal | Vicat Softening Point | | °F | 180 | D1525 |
| | Heat Distortion Temperature | | °F | 145 | D648 |
| | Heat Deflection Temperature | @ 66 psi | °F | 164 | D648 |
| | Heat Deflection Temperature | @ 264 psi | °F | 157 | D648 |
| | Service Temperature | Intermittent | °F | 320 | |
| | Service Temperature | Long Term | °F | 230 | |
| | Thermal Expansion (CLTE) | | in/(in-°F) | 3.8*10 ⁻⁵ | D696 |
| | Specific Heat | | BTU/lb-°F | 0.28 | |
| | Thermal Conductivity | | BTU-ft/(hr-ft ² -°F) | 0.13 | E1225 |
| Electrical | Surface Resistivity | | ohms/square | | |
| | Volume Resistivity | | ohms/cm | 6.0 x 10 ¹⁵ | D257 |
| | Dielectric Strength | | V/mil | 410 | D149 |
| | Dielectric Constant | @1kHz | | 2.6 | D150 |
| | Dielectric Constant | @1mHz | | 2.4 | D150 |
| | Dissipation Factor | @ 60 Hz, 73 °F | | | |
| Other | Moisture Absorption | | % | 0.2 | D570 |
| | Flammability | UL 94 | | HB | |
| | Food Grade | | | Y | |

*The data stated above are typical values intended for reference and comparison purposes only.

*The data should not be used as a basis for design specifications or quality control.

*The information is provided as a guide to the best of our knowledge and given without obligation or liability.

*Testing under individual application circumstances is recommended.