

VIVAK® PETG (Polyethylene Terephthalate Glycol)

VIVAK is a transparent thermoplastic sheet. In the point of purchase industry, VIVAK is the brand and market leader for all clear plastics. Among its advantages, VIVAK offers superior impact strength over acrylic and cost effectiveness compared to polycarbonate. VIVAK offers deep draws, complex die-cuts and precise molded-in details without sacrificing structural integrity. It die-cuts and punches easily and can be bonded or fastened with adhesives, ultrasonic welding or rivets. In addition, VIVAK is easily decorated by painting, silk screening or hot stamping. Easy to fabricate, form, bond and decorate, VIVAK is well suited for a variety of point of purchase and sign applications.

Applications:

Typical applications include videotape shelves, greeting card displays, revolving merchandise racks, indoor signs, point of purchase displays, menu displays, photo frames and slat wall inventory displays.

| Property | Test Method | Units | VIVAK® PETG |
|-----------------------------------|-------------|----------|------------------------|
| Physical | | | |
| Specific Gravity | ASTM D-792 | - | 1.27 |
| Water Absorption after 24 hrs. | ASTM D-570 | % | 0.2 |
| Mechanical | | | |
| Tensile Strength, Ultimate .125" | ASTM D-638 | psi | 7,700 |
| Tensile Modulus .125" | ASTM D-638 | psi | 320,000 |
| Flexural Strength .125" | ASTM D-790 | psi | 11,200 |
| Flexural Modulus .125" | ASTM D-790 | psi | 310,000 |
| Izod Impact Notched .125" at 73°F | ASTM D-256 | ft-lb/in | 1.7 |
| Izod Impact Notched .125" at 32°F | ASTM D-256 | ft-lb/in | 1.2 |
| Drop Dart Impact .250" at 73° | ASTM D-3763 | ft-lbs | 53 |
| Rockwell Hardness | ASTM D-785 | R Scale | 115 |
| Thermal | | | |
| Deflection Temperature @ 264 psi | ASTM D-648 | °F | 157 |
| Deflection Temperature @ 66 psi | ASTM D-648 | °F | 164 |
| Coefficient of Thermal Expansion | ASTM D-696 | in/in/°F | 3.8 x 10 ⁻⁵ |
| Flammability \geq .060 | UL 94 | - | HB |
| Glass Transition Temperature | - | °F | 178 |
| Forming Temperature | - | °F | 280-320 |
| Optical | | | |
| Light Transmission | ASTM D-1003 | % | 86 |
| Refractive Index | ASTM D-542 | - | 1.57 |
| Haze | ASTM D-1003 | % | 1.0 |

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.