



VERTEC 1032

Compression Molded

VERTEC 1032 is a green-pigmented glass fiber filled PTFE (polytetrafluoroethylene) material. It exhibits low wear and creep under load. However, since glass fibers are abrasive, use of this material against certain metallic counterfaces must be carefully examined.

<i>Physical Properties</i>	<i>ASTM Method</i>	<i>Typical Values</i>
Specific Gravity	D792	2.22 gr/cm ³
Water Absorption (24hrs. @73.4 °F)	D570	.015 %
Color	N/A	Green

<i>Mechanical Properties</i>		
Tensile Strength	D1708	2400 psi
Tensile Elongation	D1708	250 %
Flexural Strength	D790	psi
Flexural Modulus	D790	psi
Compressive Strength	D695	psi
Compressive Modulus	D695	psi
Impact Strength (Izod, notched)	D256	ft-lb/in
Hardness	Shore D	57

<i>Tribological Properties</i>		
Coefficient of Friction		
Static	D3702	.12
Dynamic	D3702	0.07
Wear Rate (PV: 20,000 psi-fpm)	D3702	µin/min

<i>Thermal Properties</i>		
Coefficient of Linear Thermal Expansion (78 to 400 °F)	D696	42 10 ⁻⁶ /°F
Heat Deflection Temperature (@264 psi)	D648	°F
Glass Transition Temperature (T _g)	D3418	
Continuous Service Temperature (Max @ no load)		500 °F
Melting Point		621 °F

<i>Electrical Properties</i>		
Volume Resistivity	D257	10 ¹⁶ ohm-cm
Dielectric Strength	D149	KV/mm
Dielectric Constant	D150	50Hz, 200 °C

Note: Property values should be interpreted as typical rather than minimum value. All technical information and recommendations are presented in good faith, based upon laboratory and real-world tests believed to be reliable and practical. However, Vertec Polymers cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine product suitability to any given application.

Rev. Date 05/2004