



VERTEC 1027

Compression Molded

VERTEC 1027 is a glass fiber filled PTFE (polytetrafluorethylene) 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	White

<i>Mechanical Properties</i>		
Tensile Strength	D1708	3100 psi
Tensile Elongation	D1708	250 %
Flexural Strength	D790	2,200
Flexural Modulus	D790	210,000
Compressive Strength	D695	2200 psi
Compressive Modulus	D695	100,000 psi
Impact Strength (Izod, notched)	D256	
Hardness	Shore D	59

<i>Tribological Properties</i>		
Coefficient of Friction		
Static	D3702	.08
Dynamic	D3702	0.13
Wear Rate (PV: 20,000 psi-fpm)	D3702	

<i>Thermal Properties</i>		
Coefficient of Linear Thermal Expansion (78 to 400 °F)	D696	71 10 ⁻⁶ /°F
Heat Deflection Temperature (@264 psi)	D648	
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
Dielectric Strength	D149
Dielectric Constant	D150

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.

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