



VERTEC IO15

Compression Molded

VERTEC 1015 is a glass fiber and molybdenum disulfide filled polytetrafluoroethylene (PTFE). It is used for bushings, bearings, and sealing elements where low creep properties with good sealability and low wear rates are desirable.

<i>Physical Properties</i>	<i>ASTM Method</i>	<i>Typical Values</i>
Specific Gravity	D792	2.27 gr/cm ³
Water Absorption (24hrs. @73.4°F)	D570	%
Color	N/A	
<i>Mechanical Properties</i>		
Tensile Strength	D1708	3600 psi
Tensile Elongation	D1708	200 %
Flexural Strength	D790	2550 psi
Flexural Modulus	D790	245,000 psi
Compressive Strength	D695	1800 psi
Compressive Modulus	D695	119000 psi
Impact Strength (Izod, notched)	D256	ft-lb/in
Hardness	Shore D	60
<i>Tribological Properties</i>		
Coefficient of Friction		
Static	D3702	.06
Dynamic	D3702	.09
Wear Rate (PV: 20,000 psi-fpm)	D3702	µin/min
<i>Thermal Properties</i>		
Coefficient of Linear Thermal Expansion (78 to 400°F)	D696	39 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.

Rev. Date 05/2004