



VERTEC 1055 is mica filled PTFE (polytetrafluorethylene) material. It exhibits very low coefficient of friction and low wear rate under dry running conditions. It is an ideal non-abrasive sealing material against soft metal surfaces in dynamic applications. Compared with other filled PTFE materials, it exhibits excellent sealability at high temperatures. It offers excellent dimensional stability, unparalleled chemical resistance and continuous use temperature of 500 oF.

Physical Properties	ASTM Method	Typical Values
Specific Gravity	D792	2.21 gr/cm <sup>3</sup>
Water Absorption (24 hrs. @73.4° F)	D570	0.1 %
Color	N/A	Off White

Mechanical Properties	ASTM Method	Typical Values
Tensile Strength	D1708	2200 psi
Tensile Elongation	D1708	250.0 %
Flexural Strength	D790	1800 psi
Flexural Modulus	D790	250000 psi
Compressive Strength	D695	3000 psi
Compressive Modulus	D695	125000 psi
Impact Strength (Izod, notched)	D256	ft-lb/in
Hardness	Shore D	61

Tribological Properties	ASTM Method	Typical Values
Coefficient of Friction - Static	D3702	0.25
Coefficient of Friction - Dynamic	D3702	0.2

Thermal Properties	ASTM Method	Typical Values
Coefficient of Linear Thermal Expansion (78-400° F)	D696	112 10 -6/° F
Heat Deflection Temperature (@264 psi)	D648	210 ° F
Glass Transition Temperature (Tg)	D3418	266 ° F
Continuous Service Temperature (Max @ no load)		500 ° F
Melting Point		621 ° F

Electrical Properties	ASTM Method	Typical Values
Volume Resistivity	D257	10 <sup>16</sup> ohm-cm
Dielectric Strength	D149	200 KV/mm
Dielectric Constant	D150	2.68 Hz, 200° C