VESCONITE
BEARINGS

Established **1958**

Vesconite - Typical Properties

		METRIC	IMPERIAL
Density (Specific Gravity)		1.38	1.38
Melting point		260^{o}C	500^{o}F
Hardness - Shore D (ASTM D2240)		83	83
Compressive Properties (ASTM D695 - 15)	**Compressive Strength @ Yield**	93 MPa	13,489 psi
	Modulus of Elasticity	2.3 GPa	333,590 psi
Tensile Properties (ASTM D695 - 15)	**Tensile Strength @ Yield**	66 MPa	9,573 psi
	Tensile Strength @ Break	63 MPa	9,137 psi
Tangent modulus of elasticity (ASTM D-790)		3,726 MPa	540,410 psi
Water swell - Mass change (ASTM D570)	**After 24 hours**	0.11%	
	After 28 days	0.12%	
Oil swell - Mass change (ASTM D570)	**After 24 hours**	0.077%	
	After 28 days	0.092%	
Shear strength (ASTM D732 -17)		49.1MPa	7,121 psi
Flexural yield strength		120 MPa	17,400 psi
Deflection temperature at 1.85MPa / 268 psi		93^{o}C	200^{o}F
Notched impact strength - Charpy (ISO 179)		245 kJ/m^{2}	0.49 ft-lb/in^{2}
Notched impact strength IZOD		30 J/m	0.56 ft-lb/in
Heat conductivity		0.3 w/m.K	2 Btu-in/ft^{2}.hr.^{o}F
Coefficient of linear thermal expansion		6x10^{-5}mm/mm.^{o}C	3.3x10^{-5} in/in.^{o}F
Dynamic friction coefficient on polished steel (no lubrication)		0.13 - 0.18	0.13 - 0.18
Dielectric strength		14kV/mm	360kV/in
Gamma ray resistance 50% loss of properties		100 Mrads	100 Mrads

The above data should be taken for indicative purposes. Physical properties may be altered to some extent by processing conditions.