VESCONITE
BEARINGS

Established **1958**

Vesconite - Typical Properties

		METRIC	IMPERIAL
Density (Specific Gravity)		1.38	
Melting point		260°C	500°F
Hardness - Shore D (ASTM D2240 / ISO 868)		83	
Compressive Properties (ASTM D695 / ISO 604)	**Compressive Strength @ Yield**	93 MPa	13,489 psi
	Modulus of Elasticity	2.3 GPa	333,590 psi
Tensile Properties (ASTM D638 / ISO 527)	**Tensile Strength @ Yield**	66 MPa	9,573 psi
	Tensile Strength @ Break	63 MPa	9,137 psi
Tangent modulus of elasticity (ASTM D790)		3,726 MPa	540,410 psi
Water swell - Mass change (ASTM D570 / ISO 62)	**After 24 hours**	0.11%	
	After 28 days	0.12%	
Oil swell - Mass change (ASTM D570 / ISO 62)	**After 24 hours**	0.08%	
	After 28 days	0.09%	
Shear strength (ASTM D732)		49.1MPa	7,121 psi
Flexural yield strength		120 MPa	17,400 psi
Deflection temperature at 1.85MPa / 268 psi		93°C	200°F
Notched impact strength - Charpy (ASTM D6110 / ISO 179)		245 kJ/m^2	117 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.°F
Coefficient of linear thermal expansion		6x10^{-5} mm/mm.°C	3.3x10^{-5} in/in.°F
Dynamic friction coefficient on polished steel (no lubrication)		0.13 - 0.18	
Dielectric strength		14 kV/mm	360 kV/in
Gamma ray resistance 50% loss of properties		100 Mrads	

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