



WAIKATO BEARINGS LIMITED

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Vesconite - Specifications

Physical properties may be altered to some extent by processing conditions

	Metric	Imperial
Density	1.38 g.ml ⁻¹	1.38
Melting point	260°C	500°F
Hardness (Shore D)	84	84
Tensile strength at yield (ASTM D-638)	65 MPa	9,400 psi
Tensile strength at break	62 MPa	9,000 psi
Tangent modulus of elasticity (ASTM D-790)	3400 MPa	493,000 psi
Flexural yield strength	120 MPa	17,400 psi
Deflection temperature at 1.85MPa / 268 psi	93°C	200°F
Modulus of elasticity under compression	2290 MPa	332,000 psi
Compression strength at yield	92 MPa	13,300 psi
Shear strength	49 MPa	7,100 psi
Notched impact strength charpy (ASTM D-256)	33 J.m ⁻¹	0.6 ft-lb/in
Notched impact strength IZOD	16 J.m ⁻¹	0.3 ft-lb/in
Heat conductivity	0.3 W.K ⁻¹ .m ⁻¹	2 Btu-in/ft ² /hr/°F
Coefficient of linear thermal expansion	6x10 ⁻⁵ mm.mm ⁻¹ .°C ⁻¹	3.3x10 ⁻⁵ in/in/°F
Maximum moisture absorption in water at 20°C / 68°F	0.5%	0.5%
Equilibrium moisture absorption in air (50% RH, 23°C / 73°F)	0.2%	0.2%
Dynamic unlubricated friction coefficient on steel	0.12-0.20	0.12-0.20
Dielectric strength	14 kV.mm ⁻¹	360 kV.in ⁻¹
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.