

VESCONITE

SELF-LUBRICATING BEARINGS AND BUSHINGS

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VESCONITE HILUBE TYPICAL PROPERTIES

	METRIC	IMPERIAL
Density	1.38 g.ml ⁻¹	1.38
Melting point	260°C	500°F
Hardness (Shore D)	82	82
Tensile strength at yield (D-638)	66 MPa	9,500 psi
Tensile strength at break	65 MPa	9,400 psi
Tangent modulus of elasticity (D-790)	3726 MPa	540,000 psi
Flexural yield strength	113 MPa	16,400 psi
Deflection temperature at 1.85MPa / 268 psi	117°C	242°F
Modulus of elasticity under compression	2206 MPa	320,000 psi
Compression strength at yield	99 MPa	14,300 psi
Shear strength	49.4 MPa	7,163 psi
Notched impact strength charpy (D-256)	26 J.m ⁻¹	0.49 ft-lb/in
Notched impact strength IZOD	30 J.m ⁻¹	0.56 ft-lb/in
Heat conductivity	0.3 WK ⁻¹ .m ⁻¹	2 Btu-in/ft ² /hr/ ⁰ F
Coefficient of linear thermal expansion	6x10 ⁻⁵ mm.mm ⁻¹ .°C ⁻¹	3.3x10 ⁻⁵ in/in/ ⁰ 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	0.10	0.10
Static friction coefficient on polished steel (no lubrication)	0.09	0.09
Dielectric strength	14kV.mm ⁻¹	360kV.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.