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Vesconite Hilube - Specifications

	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 (D638)	66 MPa	9,500 psi
Tensile strength at break	65 MPa	9,400 psi
Tangent modulus of elasticity (D790)	3726 MPa	540,000 psi
Flexural yield strength	113 MPa	16,400 psi
Deflection temperature at 1.85 MPa / 268.25 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 (D256)	26 J.m ⁻¹	0.5 ft-lb/in
Notched impact strength IZOD	30 J.m ⁻¹	0.5 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. (test at 8 MPa, V=0.8 m.min ⁻¹ PV=6.4 MPa.m.min ⁻¹)	0.10	0.10
Static friction coefficient on polished steel (no lubrication)	0.09	0.09
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.