

Vesconite Hilube - Typical Properties

		METRIC	IMPERIAL
Density (Specific Gravity)		1.38	
Melting point		260°C	500°F
Hardness - Shore D (ASTM D2240)		83	
Compressive Properties (ASTM D695 - 15)	Compressive Strength @ Yield	98 MPa	14,214 psi
	Modulus of Elasticity	2.2 GPa	319,084 psi
Tensile Properties (ASTM D695 - 15)	Tensile Strength @ Yield	67 MPa	9,718 psi
	Tensile Strength @ Break	65 MPa	9,427 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	0.13%	
Oil swell - Mass change (ASTM D570)	After 24 hours	0.05%	
	After 28 days	0.06%	
Shear strength (ASTM D732 -17)		49.6 MPa	7,194 psi
Flexural yield strength		113 MPa	16,400 psi
Deflection temperature at 1.85MPa / 268 psi		117°C	243°F
Notched impact strength - Charpy (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)		0.08 - 0.12	
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.