

Low Friction Bearing Material



TENMAT RAILKO PV80 is based on an acetal copolymer with mineral oil encapsulated in micro pockets throughout the matrix. This structure ensures self lubrication for life, combined with good dimensional stability, very low swell in water, and good creep resistance. PV80 has

application benefits that include low friction, low stick slip, no squeaking. PV80 is used to produce parts such as upper and lower steering column bushes, pedal box bushes, and suspension ball joints. PV80 is available as injection moulded components or as rod, tube, and extruded slab.

PROPERTIES	UNITS	PV80
Ultimate Compressive Strength	MPa	100
Normal Working Pressure	MPa	25
Ultimate Tensile Strength	MPa	50
Shear Strength	MPa	50
Compressive Modulus	X10 ³ kg/cm ²	20 - 25
Tensile Modulus	X10 ³ kg/cm ²	26
Flexural Modulus	X10 ³ kg/cm ²	26
Maximum dry PV	Kg/cm ² x m/min	120
Hardness	Rockwell	65M
Density	g/cm ³	1.38
% Swell in Water from desiccated to fully saturated	@20°C	0.5
Coefficient of friction		0.1
Coefficient of Thermal Conductivity	Kcal/m.hour°C	0.27
Coefficient of Thermal Expansion	10 ⁻⁵ /°C	10
Maximum Occasional Operating Temperature	°C	120
Heat distortion Temperature	°C	145
Vicat Softening Point	°C	160

The information contained in this data sheet is presented in good faith. They are typical test results tested generally in accordance with BS, ISO and ASTM test methods and should not be used for specifications. **TENMAT** does not warrant the conformity of its materials to the listed properties or their suitability for any particular purpose.

For further information please contact our Technical Sales Department on +44 161 872 2181.