

Composite Marine Bearings

TENMAT RAILKO R622 is a synthetic fibre reinforced material with added friction modifiers.

Fully approved as a rudder bearing material with all major marine classification societies, it contains special friction modifiers permitting its use in dry running applications.

RAILKO R622 can be pressed into housings or freeze-fitted using liquid nitrogen.

Bearings can be produced for shafts up to 1000mm diameter and typically with 6 mm allowances on the diameter and 50mm on length to allow for machining at shipyards.



PROPERTY	UNITS	R622
Coefficient of Friction	Dry	0.08 - 0.12
Compressive Strength	MPa	300
Normal Working Pressure	MPa	75
Compressive Yield	% @ 68.9 MPa	2.5
Impact Strength	kJ/m ²	33
Hardness	Brinell	23
Swell in Water	% @ 20 °C	0.15
Density	g / cm ³	1.3
Coefficient of Thermal Expansion	10 ⁻⁶ /°C normal 10 ⁻⁶ /°C parallel	110 40
Maximum Continuous Operating Temperature	°C	100
Maximum Intermittent Operating Temperature	°C	120

The information contained in this data sheet is presented in good faith. They are typical test results tested generally in accordance with BS 2782 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.