TENMAT ADVANCED MATERIALS

RAILKO RG22

Composite Marine Bearings

TENMAT RAILKO RG22 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 RG22 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	RG22
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

Technical Data Sheet