

ORKOT TLM MARINE

Orkot TLM Marine is an advanced reinforced polymer material incorporating solid lubricants. The material has exceptional wear resistance and virtually no swell in water, providing dimensional stability. Orkot TLM Marine tolerates edge loading and misalignment even with the heaviest loads.

Orkot Marine Bearings are installed with an interference fit. Bearings are normally freeze fitted using liquid nitrogen but can be press fitted or resin chocked as required.

Where there are extended periods without lubrication, such as upper pintle bearings under light ballast conditions, Orkot TLM Marine proves especially effective.



Key Features and Benefits of Orkot TLM Marine

- Classification approval for up to 15N/mm²
- Virtually no swell in water
- Environmentally friendly
- Approved dry running capability
- Low coefficient of friction
- Tolerant to edge loading

Orkot TLM Marine Applications

- Rudder Bearings
- Water Lubricated Propeller Shaft Bearings
- Stabiliser Bearings
- Weapons Handling Bearings and Guide Strips
- Deck machinery bearings
- High Strength Synthetic Rope Termination Bushings
- Offshore Mooring System Bearings
- Steering and Diving System Bearings
- Steering Gear Bearings
- Stern Roller Bearings
- Slipway Pads
- Sonar Bushings and Guide Strips
- Low Magnetic Permeability Materials for Mine Counter Measure Vessels
- Door Bushes
- Crane Mast Bearings

Physical Properties

Technical Data	Unit	Value
Specific Gravity	g/cm ³	1.3
Continuous Operating Temperature 5	°C	130
Minimum/Maximum Service Temperature in Air	°C	-50 to +110
Tensile Strength	Mpa	60
Impact Resistance Charpy Unnotched	KJ/m ²	120
Hardness	Rockwell M	100
Co-efficient of thermal expansion	m/(m.k) x 10 ⁻⁶	55
Food Grade	FDA	No
Normal to Laminate	Mpa	300
Parallel to Laminate	Mpa	90
Normal to Laminate	E-5°C	9
Parallel to Laminate	E-5°C	5
Thermal Conductivity		0.293