

ORKOT TXM MARINE

Orkot TXM Marine is an advanced reinforced medium weave polymer material using a unique manufacturing process that provides a high concentration of PTFE in sliding area while maintaining high compressive strength.

The PTFE layer is several millimeters thick, making it tolerant to wear, while maintaining its low friction properties throughout the service life of the bearing. The PTFE layer is backed by the polymer, Orkot TXM Marine giving a truly homogeneous bearing material without a metal backing layer.

In areas where the running conditions are dry, Orkot TXM Marine has proved particularly effective in eliminating stick-slip problems normally associated with these operating parameters. The special PTFE layer provides for similar mechanical properties to ORKOT TLM Marine, but with substantially reduced friction and wear characteristics.

Key Features and Benefits of Orkot TXM Marine

- Low Coefficient of Friction
- Self - Lubrication
- Low Water Absorption
- Easily Machined
- Operates in all Conditions
- Environmentally Friendly
- Excellent Shock Capabilities
- High Load Capabilities
- Outstanding Edge Load Capabilities



Orkot TXM 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 |
| Hardness | Rockwell M | 100 |
| Co-efficient of thermal expansion | m/(m.k) x 10 ⁻⁶ | 55 |
| Food Grade | FDA | No |
| Normal to Laminate | Mpa | 280 |
| Parallel to Laminate | Mpa | 90 |
| Normal to Laminate | E-5°C | 9 |
| Parallel to Laminate | E-5°C | 5 |
| Impact Resistance Charpy Notched | KJ/m ² | 122 |