



L2 Marine material exclusively available from **ACM Bearings Ltd** is the result of an extensive rudder bearing R&D programme and was initially launched into the marine market in 2001. It has since been installed and successfully operated on over 1,000 vessels, both new and repair, on various shaft sizes up to 1.25 metres diameter.

The material was developed to give improved performance, longer life, a very competitive price and to have the capability of operating under non-lubricated conditions, offering a maintenance free...

"Fit and Forget Bearing Solution"

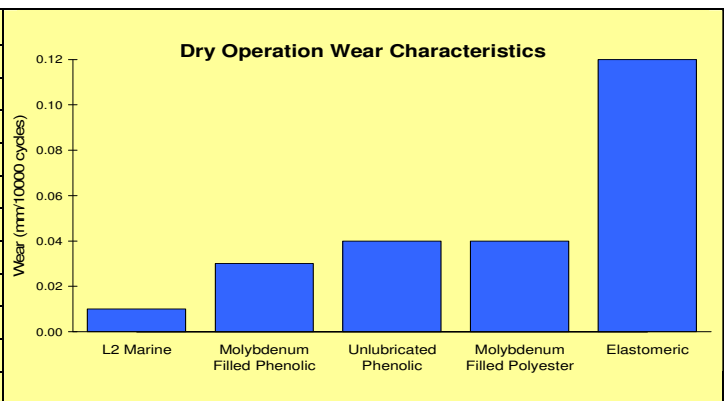
Due to its excellent bearing characteristics **L2 Marine** is the only single synthetic composite material available that has classification approval for both lubricated and dry operation, making it the ideal rudder bearing material.

Other applications include; deck machinery equipment, offshore mooring systems, steering gear, stern roller bearings, water tight door bearings and many more.

Benefits of **L2 Marine** for Rudder Applications

- High load capability
- Very low stick - slip
- Good elasticity
- Can be freeze fitted
- Very low swell
- Maintenance free
- Competitive price
- Approved for wet and dry operation
- Short delivery time (repair 48 hours)
- Dry, oil, grease, water operation
- Classification approval (10 N/mm²)
- Low wear characteristics - long life
- Good dimensional stability
- Environmentally friendly

Property	Value
Compressive Strength (flatwise)	375 N/mm ²
Compressive Strength (edgewise)	150 N/mm ²
Compressive Modulus (flatwise)	2750 N/mm ²
Impact Strength (flatwise)	100 kJ/m ²
Shear Strength	137 N/mm ²
Density	1.3 g/cc
Hardness (Rockwell M)	110
Coefficient of Friction (dry)	0.15
Maximum Operating Temperature	140°C
Thermal Expansion Coefficient	5 x 10 ⁻⁵ /°C
Swell in Water (ambient)	<0.15%



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