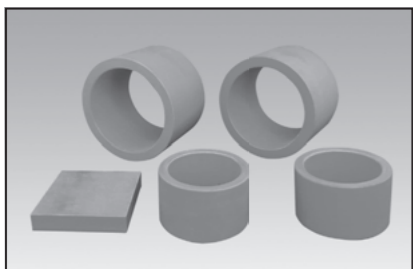


Oiles Fiberflon GH

Polyester bearings with fillers



Feature

- This product can be used in air, water or seawater.
- Demonstrates superior wear resistance under micro-motion.
- Easy dimensional setting due to a low swelling rate.
- Lighter weight than metallic bearings, and easier assembly even with large diameter units.
- Also available in large diameters and plate shapes.

Service range

Lubrication condition	Dry
Service temperature range °C	-40~+100
Allowable max. pressure P N/mm ² {kgf/cm ² }	49 (100) {500 (1,020)}
Allowable max. velocity V m/s {m/min}	0.15 {9}
Allowable max. PV value N/mm ² · m/s {kgf/cm ² · m/min}	1.2 {734}

Condition: in atmosphere, bushing, shaft rotation.
The values in parentheses are static bearing pressures, which are the bearing pressures in applications with no motion or very small motion (≤ 0.0017 m/s).

Mechanical properties

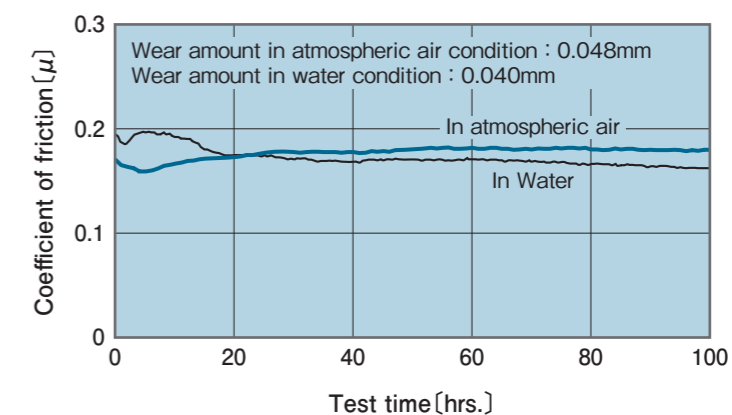
Specific gravity	JIS K 6911	—	1.3	Hardness (Note 2)	JIS K 6911	HRM	90
Tensile strength (Note 1)	JIS K 6911	N/mm ²	125	Izod impact strength (Note 2)	JIS K 6911	J/m	1,200
Flexural property (Note 2)	JIS K 6911	N/mm ²	95	Co-efficient of linear expansion (Note 2)	ASTM D 696	$\times 10^{-5} \text{ } ^\circ\text{C}^{-1}$	6-9
Compressive strength (Note 2)	JIS K 6911	N/mm ²	300	Swelling rate (Note 2)	—	%	0.3

※The values shown above are typical values, not the standard values.
(Note 1) Measurements are taken in a direction parallel to the bearing layer.
(Note 2) Measurements are taken in a direction perpendicular to the bearing layer.

Test data

Journal oscillation test

<Testing conditions>
Environment : In atmospheric air, In water
Bearing dimension : $\phi 60 \times \phi 75 \times \phi 50$
Mating material : SUS403
Pressure : 24.5N/mm²
Velocity : 0.008m/s
Oscillating angle : $\pm 2^\circ$
Oscillating cycle : 120cpm
Test time : 100hr
Lubrication : dry



Journal oscillation test

<Testing conditions>
Environment : In water, In muddy water
Bearing dimension : $\phi 60 \times \phi 75 \times \phi 50$
Mating material : SUS403
Pressure : 24.5N/mm²
Velocity : 0.008m/s
Oscillating angle : $\pm 2^\circ$
Oscillating cycle : 120cpm
Test time : 50hr
Lubrication : dry

