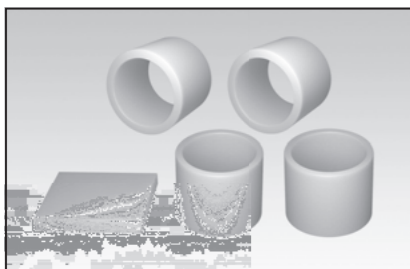


Oiles Fiberflon GH

Polyester bearings with fillers



From April 2021, the appearance of the product has been changed from blue-green to white. (Service range, mechanical properties and friction performance have not changed.)

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.
- Certified by NIPPON KAIJI KYOKAI as a material for nonmetallic rudder bearings.
- 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]	60 (100) {612 (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

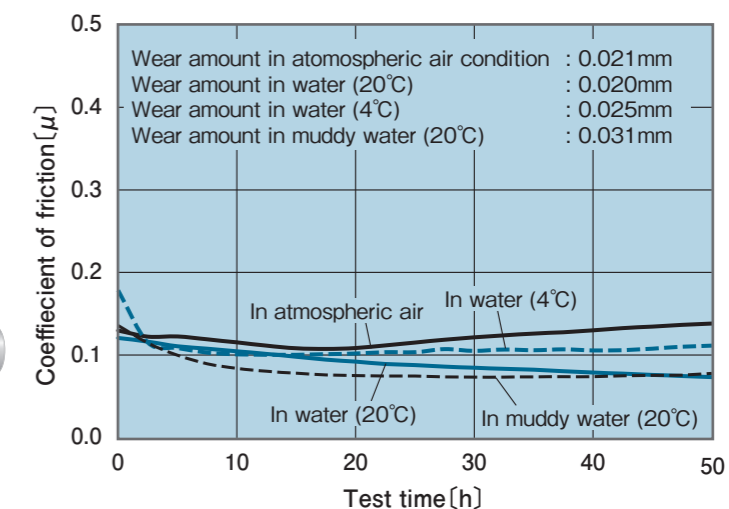
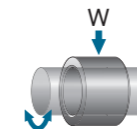
Specific gravity	JIS K 6911	—	1.3	Hardness (Note 2)	JIS K 6911	HRM	85
Tensile strength (Note 1)	JIS K 6911	N/mm ²	110	Izod impact strength (Note 2)	JIS K 6911	J/m	1,300
Flexural property (Note 2)	JIS K 6911	N/mm ²	90	Co-efficient of linear expansion	ASTM D 696	$\times 10^{-5} \text{ } ^\circ\text{C}^{-1}$	5 (Note 1) 9 (Note 2)
Compressive strength (Note 2)	JIS K 6911	N/mm ²	300	Swelling rate (Note 2)	—	%	0.1

※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 (20°C, 4°C),
In muddy water (20°C)
Mating material : SUS403
Pressure : 24.5N/mm²
Velocity : 8.3mm/s
Oscillating angle : $\pm 2^\circ$
Test time : 50h
Lubrication : dry



Manufacturable size range

[Unit : mm]

I.D.	Max O.D.	Length
15 to less than 40	Please contact us	300 or less
40 to less than 50	104	1000 or less
50 to less than 60	114	
60 to less than 70	124	
70 to less than 80	134	
80 to less than 90	144	
90 to less than 100	154	
100 to less than 110	164	
110 to less than 120	174	
120 to less than 130	184	
130 to less than 150	194	
150 to less than 175	214	
175 to less than 200	239	
200 to less than 230	264	
230 to less than 250	284	
250 to less than 270	304	
270 to less than 300	324	
300 to less than 350	354	
350 to less than 400	404	
400 to less than 450	454	
450 to less than 500	504	
500	554	

※"Length" in the table indicates the length of the material.
※Plate and washer shape are also available.