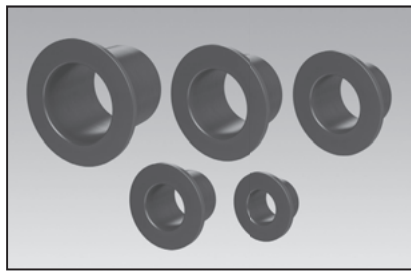


Oiles Lutech F Polyacetal bearings with fillers



Superior wear resistance and contributes to the risk of contamination in food machinery

Feature

- Superior wear resistance compared to Oiles 80 series. (In-house test under conditions assuming food machinery)
- The blue appearance makes it easy to find visually and reduces the risk of contamination.
- Injection-molded and can be made in complicated shapes. Has good mass productivity.
- It conforms to the positive list system of the food sanitation act in Japan.
- It conforms to the positive list system of the food and drug administration (FDA) in United states.

Service range

Lubrication condition	Dry
Service temperature range °C	-40~+80
Allowable max. pressure P N/mm ² {kgf/cm ² }	17.5 {179}
Allowable max. velocity V m/s {m/min}	0.85 {51}
Allowable max. PV value N/mm ² · m/s {kgf/cm ² · m/min}	0.68 {416}

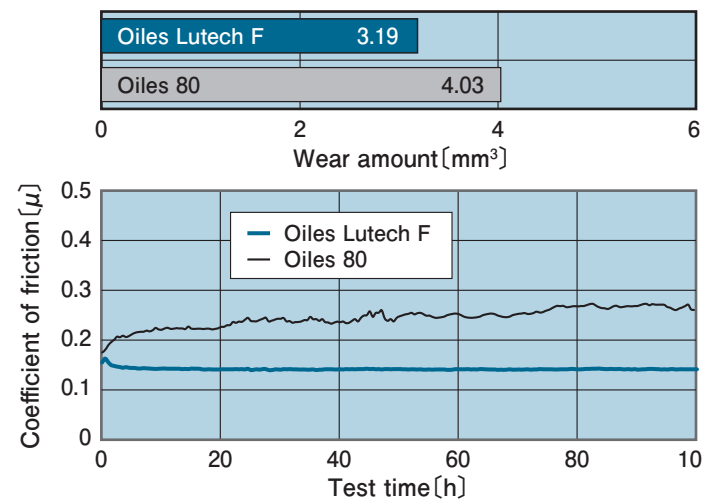
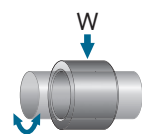
Mechanical properties

Specific gravity	ASTM D 792	g/cm ³	1.38	Izod impact strength	ASTM D 256	J/m	46.8
Tensile strength	ASTM D 638	N/mm ² {kgf/cm ² }	56.4 {576}	Hardness	ASTM D 785	HRM	63
Tensile elongation at break	ASTM D 638	%	28	Co-efficient of linear expansion	ASTM D 696	×10 ⁻⁵ °C ⁻¹	11.8
Flexural property	ASTM D 790	N/mm ² {kgf/cm ² }	69.0 {704}	Melting point	—	°C	166
Flexural modulus	ASTM D 790	N/mm ² {kgf/cm ² }	2,271 {23,158}	※The values shown above are typical values, not the standard values.			

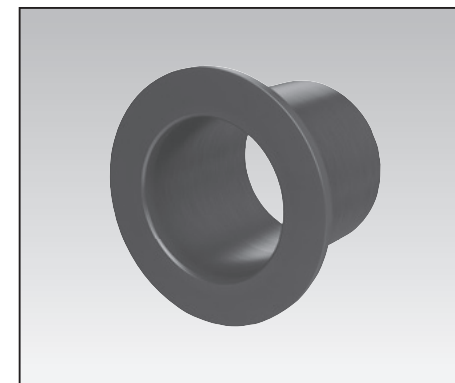
Test data

Journal rotation test

<Testing conditions>
 Mating material : SUJ2
 Environment : In atmospheric air
 Pressure : 0.98N/mm²
 Velocity : 0.33m/s
 Test time : 100h
 Lubrication : dry

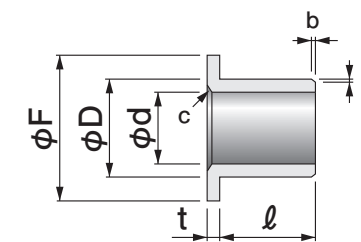
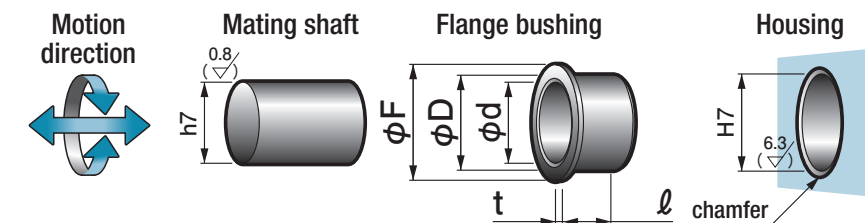


LTFF Oiles Lutech F Flange Bushings



Specify Part No. by required I.D. and length.
 (e.g.) I.D. is 10mm and length is 5mm.

LTFF - 1005
 Part No.



a b: Chamfering for O.D.

φd	2	~35	~50
a	0.3	0.3	0.5
b	(Note)	1	2

(mm)

(Note) ℓ2mm:0.3, ℓ3/4mm:0.5

c: Chamfering for I.D.

φd	~10	~35	~40	~50
c	R0.3	R0.4	R0.6	R0.8

(mm)

- The Lutech F are injection-molded.
- The inner diameter tolerances are the values after pressing into a ring gauge of φ D ±0.002.
- A stopper is needed at the temperature of 0°C or less, since the bushing is dislocated due to thermal shrinkage.

I.D.	O.D.	Flange	Length ℓ Tolerance $-\frac{0}{-0.3}$					Length ℓ Tolerance $-\frac{0}{-0.5}$				I.D.				
φd	Tolerance	φD	Tolerance	φF	t	Tolerance	3	4	5	6	8	10	12	15	20	φd
6	+0.095 +0.045	8	+0.157 +0.045	12	1	$\frac{0}{-0.10}$			0605		0608	0610				6
7	+0.095 +0.045	9	+0.157 +0.045	13	1	$\frac{0}{-0.10}$			0705							7
8	+0.120 +0.060	10	+0.157 +0.045	15	1	$\frac{0}{-0.10}$	0803		0805	0806	0808			0815		8
10	+0.120 +0.060	12	+0.193 +0.058	18	1	$\frac{0}{-0.10}$	1003		1005	1006	1008	1010				10
12	+0.120 +0.060	14	+0.193 +0.058	20	1	$\frac{0}{-0.10}$				1206	1208	1210	1212			12
14	+0.120 +0.060	16	+0.193 +0.058	22	1	$\frac{0}{-0.10}$								1415		14
16	+0.120 +0.060	18	+0.193 +0.058	24	1	$\frac{0}{-0.10}$								1615		16
20	+0.145 +0.075	23	+0.221 +0.071	31	1.5	$\frac{0}{-0.15}$								2020		20