



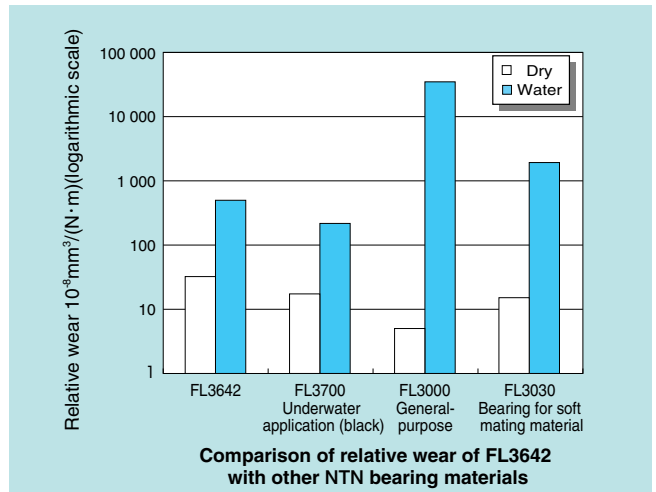
BEAREE

BEAREE Products Meet Diverse Needs in the Food Machinery Industry.

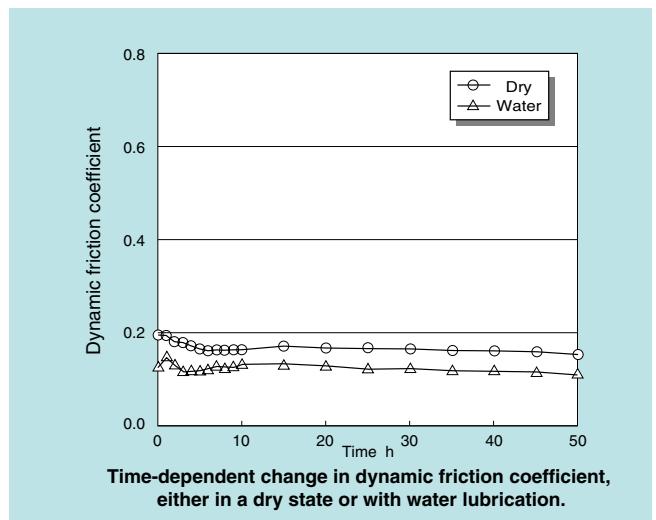
1. BEAREE satisfies the specification test for synthetic resin utensils, containers, and packaging materials by Japan Food Research Laboratories.
2. It is available in the hygienic colors of white or pale yellow.



BEAREE FL3642 <Fluororesin Series>



● Time-dependent change in dynamic friction coefficient
 The graphical plot below represents the time-dependent change in the dynamic friction coefficient under the above-mentioned test conditions, either in dry state or with water lubrication.



1.1 Features

1. Excellent friction/wear characteristics when not lubricated or when operating in liquid.
2. Higher permissible PV value. Maximum permissible operating temperature is 260°C.
3. Good compatibility with mild steel or stainless steel.
4. Least affected by acid, base, or solvent.

1.2 Sliding characteristics

● Comparison of wear characteristics with various BEAREE products

Wear characteristics of FL3642, either in a dry state or with water lubrication, are compared with those of other BEAREE materials.

- ◆ Test conditions: Thrust tester
- Bearing pressure: 0.98 MPa
- Peripheral speed: 32 m/min
- Mating material: SUS304
- Lubrication: Dry or water
- Test duration: 50 hrs.



Products for food machinery



Other BEAREE materials also satisfy the above specification test, and are used according to the intended applications.

Typical BEAREE materials that satisfy the specification test for synthetic resin containers and packaging materials

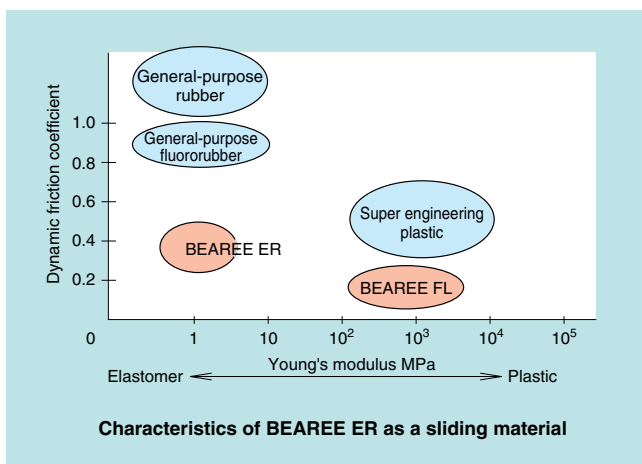
Material description	Color	Applications
BEAREE FL 3040	Black	Bearing for soft mating materials
BEAREE FL 3700	Black	Bearing for underwater applications
BEAREE AS 5000	Light brown	General-purpose



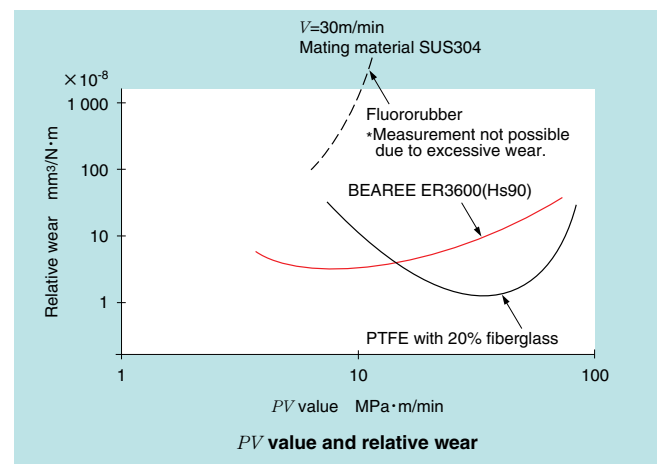
3.1 Features

1. Its elasticity ensures an excellent seal.
2. Better friction/wear characteristics than general-purpose fluororubber
3. Maximum continuous operating temperature of 230°C
4. Good compatibility with soft mating materials

3.2 Characteristics of BEAREE ER as a sliding material



3.3 PV value and relative wear



4.1 Features

1. Excellent friction/wear characteristics at lower PV value
2. Excellent impact resistance
3. Very economical

Note: NTN also supplies BEAREE UH300 in rod and pipe forms.

4.2 Typical characteristic values

Specific gravity	Compression creep %	Hardness ^①	Tensile strength		Elongation %	Bending strength		Young's modulus in flexure		Water absorption %	Coefficient of linear expansion × 10 ⁻⁵ /°C ^②	Max. permissible operating temp. °C
			MPa	kgf/cm ²		MPa	kgf/cm ²	MPa	kgf/cm ²			
0.94	11.0	65	20	200	200	20	200	610	6 100	0.01	20.0	80

① Hardness: Durometer

② Coefficient of linear expansion: Average coefficient in the range from room temperature to 80°C.