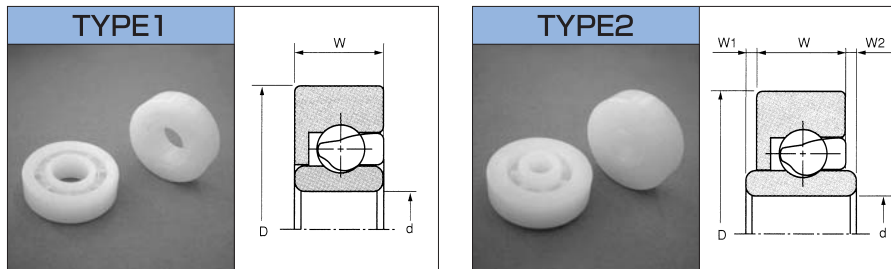


PE ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE (ANTI-ACID/ANTI-ALKALI BEARINGS)



| Code | Part No. | D _{-0.1} ⁰ [mm] | d ₀ ^{+0.12} [mm] | W _{-0.2} ⁰ [mm] | W1 ^{*1} [mm] | W2 ^{*1} [mm] | Type | Q'ty [pcs/box] | Gross Weight [kg/box] | BALL ^{*2} |
|--------|------------------|--|---|--|--------------------------|--------------------------|------|-------------------|--------------------------|--------------------|
| 250126 | PE-35-SHP15 | 35 | 15 ^{+0.15} ₀ | 11 | — | — | 1 | 400 | 5.3 | S |
| 250010 | PE-35-SHP8W1.75 | 35 | 8 | 11 | 1.75 | 1.75 | 2 | 300 | 3.7 | S |
| 250017 | PE-35-SHP17W1.75 | 35 | 17 ^{+0.2} _{0.01} | 11 | 1.75 | 1.75 | 2 | 400 | 4.8 | S |
| 250100 | PE-26-PHP10 | 26 _{-0.2} ⁰ | 10 | 8 | — | — | 1 | 1,000 | 2.9 | P |
| 250121 | PE-30-PHP10 | 30 | 10 | 9 | — | — | 1 | 500 | 2.2 | P |
| 250124 | PE-32-PHP12 | 32 | 12 ^{+0.2} ₀ | 10 | — | — | 1 | 500 | 3 | P |
| 250127 | PE-35-PHP15 | 35 | 15 ^{+0.15} ₀ | 11 | — | — | 1 | 400 | 2.5 | P |
| 250132 | PE-47-PHP20 | 47 | 20 | 14 | — | — | 1 | 150 | 4 | P |
| 250011 | PE-35-PHP8W1.75 | 35 | 8 | 11 | 1.75 | 1.75 | 2 | 300 | 3.4 | P |
| 250122 | PE-30-GHP10 | 30 | 10 | 9 | — | — | 1 | 500 | 6 | G |
| 250131 | PE-40-GHP17 | 40 | 17 | 12 | — | — | 1 | 300 | 3.7 | G |
| 250012 | PE-35-GHP8W1.75 | 35 | 8 | 11 | 1.75 | 1.75 | 2 | 300 | 3.1 | G |
| 250019 | PE-35-GHP17W1.75 | 35 | 17 ^{+0.2} _{0.01} | 11 | 1.75 | 1.75 | 2 | 400 | 3.5 | G |

*1 Reference Dimension

*2 Ball Material: S=Stainless Steel; P=Polyethylene; G=Glass. Outer/Inner Race Material: Ultra-high Molecular Weight Polyethylene.

*3 Size limits can be modified for practical applications. Please contact our sales/engineering departments for further information and assistance. These bearings are lubricant free and are made to order.

DURABILITY OF PLASTICS IN A CHEMICAL ENVIRONMENT

Table No.1 : durability of plastics in a chemical environment

| | Polyacetal (POM) | Polyamid (PA) | Polyethylene (PE) | Polypropylene (PP) |
|---------------------|------------------|---------------|-------------------|--------------------|
| Liquid Ammonia | ○ | ○ | ○ | ○ |
| Calcium Hydroxide | ○ | ○ | ○ | ○ |
| Potassium Hydroxide | ○ | ○ | ○ | ○ |
| Sodium Hydroxide | 30% 30°C | × | ○ | ○ |
| | 30% RT | ○ | ○ | ○ |
| | 10% RT | △ | ○ | ○ |
| Oxalic Acid | ○ | ○ | ○ | ○ |
| Acetic Acid | 50% RT | △ | ○ | ○ |
| | 38% RT | × | ○ | ○ |
| Hydrochloric Acid | 10% RT | ○ | ○ | ○ |
| | RT Fuming | × | × | × |
| Nitric Acid | 61% RT | × | △ | △ |
| | 10% RT | △ | ○ | ○ |
| | RT Fuming | × | × | × |
| Sulphuric Acid | 98% RT | × | △ | △ |
| | 10% RT | △ | ○ | ○ |
| | 25% RT | × | × | ○ |
| Chromic Acid | × | × | ○ | △ |

Table No.1 denotes the durability of Polyacetal, Polyamide(ylon), Polyethylene, and Polypropylene, against acids and alkali solutions.

Table No.2 : durability of plastics against solvent, oil, gasses and sea water

| | Polyacetal (POM) | Polyamid (PA) | Polyethylene (PE) | Polypropylene (PP) |
|--------------------|------------------|---------------|-------------------|--------------------|
| Sea-Water | ○ | * | ○ | ○ |
| Sulfur Dioxide Gas | ○ | ○ | ○ | ○ |
| Carbonic Acid Gas | ○ | ○ | ○ | ○ |
| Ammonia | ○ | ○ | ○ | ○ |
| Petroleum | ○ | ○ | △ | ○ |
| Benzine | △ | ○ | △ | △ |
| Holmaldehyde | ○ | △ | ○ | ○ |
| Ethyl Alcohol | ○ | ○ | ○ | ○ |
| Cresol | ○ | × | ○ | ○ |

Bearing used in sea water, must be corrosion resistance to sea water.

*polyamide resins water absorption ratios are too high to be considered for use as balls or races in a water or sea water environment.

(Explanation of Codes)

- ◎ : GOODAcceptable—Visually free of any corrosive affect. Durable for field applications.
- : FAIRLimited—Slight corrosion influence, but can be used for specific field applications in ambient conditions.
- △ : AVERAGEUnacceptable—Yielding and not applicable
- × : IMPROPER.....No rating—easily corrodes and not usable
- RT : Room Temperature

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Product specification are subject to change without prior notice.

Before assembly or use of any bearing, please read "Caution for Use"