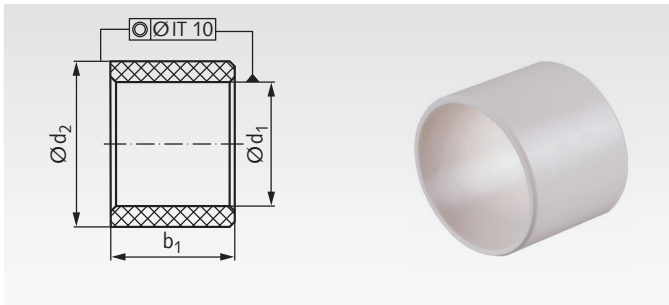


## Plain Bearings, Thermoplastic EP22™

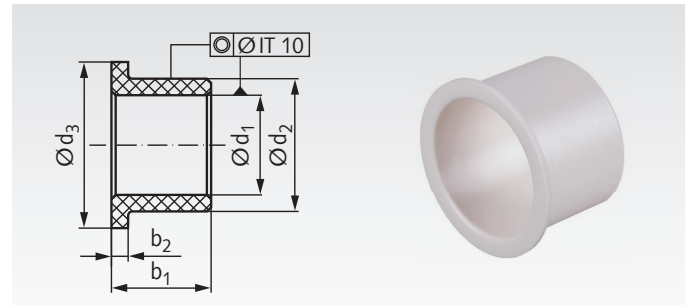


Plain bearing bush made from thermoplastic with high dimension accuracy. Low friction. Specially suited for dry-running and for use at very low up to middle high temperatures. Colour: white.

Ordering Details: e.g.: Product No. 627 208 06, Bush EP22, 8 mm Bore

| Product No. | $d_1$<br>mm | $d_2$<br>mm | $b_1$ , <sup>h13</sup><br>mm | Tolerance $d_1$ *<br>mm | Weight<br>g |
|-------------|-------------|-------------|------------------------------|-------------------------|-------------|
| 627 208 06  | 8           | 10          | 6                            | +0,025 +0,083           | 0,2         |
| 627 208 08  | 8           | 10          | 8                            | +0,025 +0,083           | 0,3         |
| 627 208 10  | 8           | 10          | 10                           | +0,025 +0,083           | 0,4         |
| 627 208 12  | 8           | 10          | 12                           | +0,025 +0,083           | 0,5         |
| 627 208 15  | 8           | 10          | 15                           | +0,025 +0,083           | 0,6         |
| 627 210 04  | 10          | 12          | 4                            | +0,025 +0,083           | 0,2         |
| 627 210 06  | 10          | 12          | 6                            | +0,025 +0,083           | 0,3         |
| 627 210 08  | 10          | 12          | 8                            | +0,025 +0,083           | 0,4         |
| 627 210 10  | 10          | 12          | 10                           | +0,025 +0,083           | 0,5         |
| 627 210 15  | 10          | 12          | 15                           | +0,025 +0,083           | 0,7         |
| 627 210 20  | 10          | 12          | 20                           | +0,025 +0,083           | 1,0         |
| 627 212 10  | 12          | 14          | 10                           | +0,032 +0,102           | 0,6         |
| 627 212 12  | 12          | 14          | 12                           | +0,032 +0,102           | 0,7         |
| 627 212 15  | 12          | 14          | 15                           | +0,032 +0,102           | 0,9         |
| 627 212 20  | 12          | 14          | 20                           | +0,032 +0,102           | 1,2         |
| 627 214 12  | 14          | 16          | 12                           | +0,032 +0,102           | 0,9         |
| 627 214 15  | 14          | 16          | 15                           | +0,032 +0,102           | 1,0         |
| 627 214 20  | 14          | 16          | 20                           | +0,032 +0,102           | 1,4         |
| 627 214 25  | 14          | 16          | 25                           | +0,032 +0,102           | 1,7         |
| 627 215 15  | 15          | 17          | 15                           | +0,032 +0,102           | 1,1         |
| 627 215 20  | 15          | 17          | 20                           | +0,032 +0,102           | 1,4         |
| 627 215 25  | 15          | 17          | 25                           | +0,032 +0,102           | 1,7         |
| 627 216 15  | 16          | 18          | 15                           | +0,032 +0,102           | 1,2         |
| 627 216 20  | 16          | 18          | 20                           | +0,032 +0,102           | 1,6         |
| 627 216 25  | 16          | 18          | 25                           | +0,032 +0,102           | 1,8         |
| 627 218 20  | 18          | 20          | 20                           | +0,032 +0,102           | 1,8         |
| 627 218 25  | 18          | 20          | 25                           | +0,032 +0,102           | 2,0         |
| 627 220 10  | 20          | 23          | 10                           | +0,040 +0,124           | 1,5         |
| 627 220 15  | 20          | 23          | 15                           | +0,040 +0,124           | 2,2         |
| 627 220 20  | 20          | 23          | 20                           | +0,040 +0,124           | 2,9         |
| 627 220 25  | 20          | 23          | 25                           | +0,040 +0,124           | 3,9         |
| 627 220 30  | 20          | 23          | 30                           | +0,040 +0,124           | 4,4         |
| 627 225 15  | 25          | 28          | 15                           | +0,040 +0,124           | 2,7         |
| 627 225 20  | 25          | 28          | 20                           | +0,040 +0,124           | 3,6         |
| 627 230 20  | 30          | 34          | 20                           | +0,040 +0,124           | 6,2         |
| 627 230 30  | 30          | 34          | 30                           | +0,040 +0,124           | 9,3         |
| 627 240 30  | 40          | 44          | 30                           | +0,050 +0,150           | 12,2        |
| 627 240 40  | 40          | 44          | 40                           | +0,050 +0,150           | 16,3        |
| 627 250 40  | 50          | 55          | 40                           | +0,050 +0,150           | 25,4        |
| 627 250 50  | 50          | 55          | 50                           | +0,050 +0,150           | 31,7        |
| 627 260 40  | 60          | 65          | 40                           | +0,050 +0,150           | 30,2        |
| 627 260 60  | 60          | 65          | 60                           | +0,050 +0,150           | 45,4        |

## Flanged Plain Bearings, Thermoplastic EP22™



Plain bearing flange bush from thermoplastic with high dimension accuracy. Low friction. Specially suited for dry-running and for use at very low up to middle high temperatures. Colour: white.

Ordering Details: e.g.: Product No. 627 308 05, Flange Bush EP22, 8 mm Bore

| Product No. | $d_1$<br>mm | $d_2$<br>mm | $d_3$<br>mm | $b_1$ , <sup>h13</sup><br>mm | $b_2$ , <sup>h13</sup><br>mm | Tolerance $d_1$ *<br>mm | Weight<br>g |
|-------------|-------------|-------------|-------------|------------------------------|------------------------------|-------------------------|-------------|
| 627 308 05  | 8           | 10          | 15          | 5,5                          | 1,0                          | +0,025 +0,083           | 0,4         |
| 627 308 07  | 8           | 10          | 15          | 7,5                          | 1,0                          | +0,025 +0,083           | 0,5         |
| 627 308 10  | 8           | 10          | 15          | 10                           | 1,0                          | +0,025 +0,083           | 0,5         |
| 627 310 07  | 10          | 12          | 18          | 7                            | 1,0                          | +0,025 +0,083           | 0,6         |
| 627 310 09  | 10          | 12          | 18          | 9                            | 1,0                          | +0,025 +0,083           | 0,7         |
| 627 310 12  | 10          | 12          | 18          | 12                           | 1,0                          | +0,025 +0,083           | 0,8         |
| 627 310 15  | 10          | 12          | 18          | 15                           | 1,0                          | +0,025 +0,083           | 1,0         |
| 627 310 17  | 10          | 12          | 18          | 17                           | 1,0                          | +0,025 +0,083           | 1,1         |
| 627 312 07  | 12          | 14          | 20          | 7                            | 1,0                          | +0,032 +0,102           | 0,6         |
| 627 312 09  | 12          | 14          | 20          | 9                            | 1,0                          | +0,032 +0,102           | 0,8         |
| 627 312 12  | 12          | 14          | 20          | 12                           | 1,0                          | +0,032 +0,102           | 1,2         |
| 627 312 15  | 12          | 14          | 20          | 15                           | 1,0                          | +0,032 +0,102           | 1,3         |
| 627 312 17  | 12          | 14          | 20          | 17                           | 1,0                          | +0,032 +0,102           | 1,4         |
| 627 312 20  | 12          | 14          | 20          | 20                           | 1,0                          | +0,032 +0,102           | 1,5         |
| 627 314 12  | 14          | 16          | 22          | 12                           | 1,0                          | +0,032 +0,102           | 0,9         |
| 627 314 17  | 14          | 16          | 22          | 17                           | 1,0                          | +0,032 +0,102           | 1,5         |
| 627 315 09  | 15          | 17          | 23          | 9                            | 1,0                          | +0,032 +0,102           | 1,0         |
| 627 315 12  | 15          | 17          | 23          | 12                           | 1,0                          | +0,032 +0,102           | 1,2         |
| 627 315 17  | 15          | 17          | 23          | 17                           | 1,0                          | +0,032 +0,102           | 1,5         |
| 627 315 20  | 15          | 17          | 23          | 20                           | 1,0                          | +0,032 +0,102           | 1,8         |
| 627 316 12  | 16          | 18          | 24          | 12                           | 1,0                          | +0,032 +0,102           | 1,3         |
| 627 316 17  | 16          | 18          | 24          | 17                           | 1,0                          | +0,032 +0,102           | 1,7         |
| 627 318 12  | 18          | 20          | 26          | 12                           | 1,0                          | +0,032 +0,102           | 1,4         |
| 627 318 17  | 18          | 20          | 26          | 17                           | 1,0                          | +0,032 +0,102           | 2,1         |
| 627 320 11  | 20          | 23          | 30          | 11,5                         | 1,5                          | +0,040 +0,124           | 2,4         |
| 627 320 16  | 20          | 23          | 30          | 16,5                         | 1,5                          | +0,040 +0,124           | 3,2         |
| 627 320 21  | 20          | 23          | 30          | 21,5                         | 1,5                          | +0,040 +0,124           | 3,9         |
| 627 325 11  | 25          | 28          | 35          | 11,5                         | 1,5                          | +0,040 +0,124           | 2,9         |
| 627 325 16  | 25          | 28          | 35          | 16,5                         | 1,5                          | +0,040 +0,124           | 3,9         |
| 627 325 21  | 25          | 28          | 35          | 21,5                         | 1,5                          | +0,040 +0,124           | 4,9         |
| 627 330 16  | 30          | 34          | 42          | 16                           | 2,0                          | +0,040 +0,124           | 6,4         |
| 627 330 26  | 30          | 34          | 42          | 26                           | 2,0                          | +0,040 +0,124           | 9,5         |
| 627 330 40  | 30          | 34          | 42          | 40                           | 2,0                          | +0,040 +0,124           | 13,9        |
| 627 340 16  | 40          | 44          | 52          | 16                           | 2,0                          | +0,050 +0,150           | 8,4         |
| 627 340 26  | 40          | 44          | 52          | 26                           | 2,0                          | +0,050 +0,150           | 12,4        |
| 627 340 50  | 40          | 44          | 52          | 50                           | 2,0                          | +0,050 +0,150           | 22,2        |
| 627 350 26  | 50          | 55          | 63          | 26                           | 2,0                          | +0,050 +0,150           | 18,8        |
| 627 350 60  | 50          | 55          | 63          | 60                           | 2,0                          | +0,050 +0,150           | 40,4        |
| 627 360 50  | 60          | 65          | 73          | 50                           | 2,0                          | +0,050 +0,150           | 40,5        |
| 627 360 70  | 60          | 65          | 73          | 70                           | 2,0                          | +0,050 +0,150           | 55,6        |

\* After press-fitting in bore H7 (in toleranc center).

## Description and technical data

**Material:** Thermoplast polybutylenterephthalat, modified (PBT + PTFE), white.

- Good price/performance ratio with high dimension accuracy
- Low friction, suitable also for lubrication-free running.
- Low Temperatures suited until -50°C.

### Operating Conditions :

dry : very good.  
oiled: good.  
water: very good.

### Field of application:

Domestic appliances, chemical equipment, office equipment, sports equipment, automotive (pedals, steering, axes), ...

### Technical data:

Surface pressure: max. 50 N/mm<sup>2</sup>.  
Sliding Speed: max. 1,0 m/s.  
pv-value for  $A_H/AC=5$ : 0,05 N/mm<sup>2</sup> x m/s.  
pv-value for  $A_H/AC=10$ : 0,10 N/mm<sup>2</sup> x m/s.  
pv-value for  $A_H/AC=20$ : 0,20 N/mm<sup>2</sup> x m/s.  
Temperature range: -50°C to + 170°C.  
Coefficient of friction: 0,22 to 0,37 (dry).  
Shaft surface finish: Ra 0,1 to 0,5 µm (ground).  
Shaft hardness: > 200 HV.

### Recommended mounting tolerances:

Housing bore H7, recommended shaft tolerance h9.