

PM Multi-layer bearing is made of triple layer composites: carbon steel as base, porous bronze intermediate layer, POM & Pb (or non-Pb mixture) inner surface layer. The POM inner layer pressed with many oil pockets to store enough grease. Also it called SF-2 in China and DX,PAP P20 overseas. The products are widely used in machinery industry, such as auto machines, punch machine, forging and pressing machine, vehicle chassis, lifting equipment, mining machinery, steel industry, etc.

Technical Data

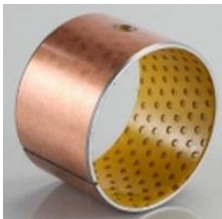


- 1.POM composite 0.3~0.5mm as sliding layer
 - 2.Porous bronze 0.2~0.3mm
 - 3.Metal backing 0.4~2.2mm*
 - 4.Tin-plating 0.005mm or copper plating 0.008mm
- * Metal in carbon steel, bronze or stainless steel.

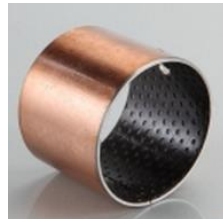
Performance	Data (*According to steel backing)	
Load capacity P (Dry friction)	Static load	250N/mm ²
	Dynamic load	140N/mm ²
Max linear speed V	Dry friction	/
	Oil lubrication	2.5m/s
PV value limit	Dry friction	2.8N/mm ² .m/s
	Oil lubrication	22N/mm ² .m/s
Friction coef u	Dry friction	/
	Oil lubrication	0.08~0.25
Working temperature	-40°C~+130°C	
Thermal conductivity	13W/mk	
Linear expansion	11*10 ⁻⁶ /K	

Products Standard: ISO3547 (Replaces DIN1494)

Basic Models



PM Yellow POM



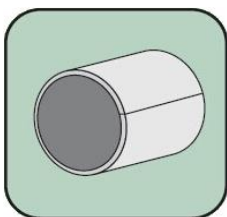
PM-X Black POM



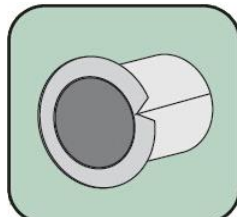
PM-B Blue, Groove

= ordering code

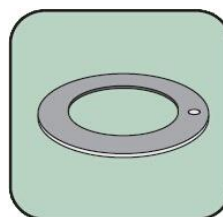
Basic Structures



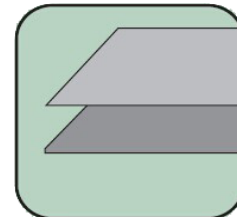
S Sleeve Bushing



F Flanged Bushing

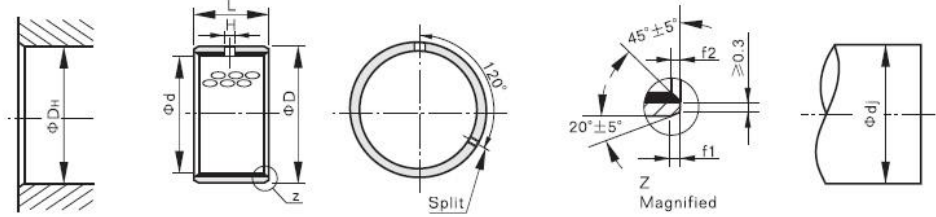
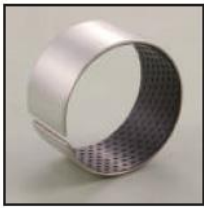


W Thrust Washer



P Slide Plate

= ordering code



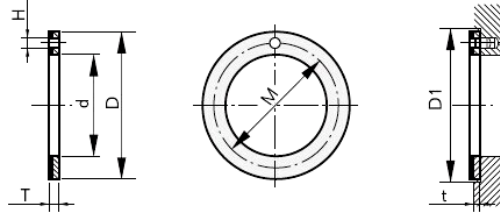
ID d	Shaft d _s		Housing D _h		OD D		Wall T	H	L ^{-0.00} _{-0.40 (d<28L -0.30)}												
									6	8	10	12	15	20	25	30	40	50	60	70	80
4.990 5.055	5	-0.013 -0.028	7.015 8.000	7	+0.055 +0.025	0.980	1.005		•	•											
5.990 6.055								6	-0.013 -0.028	8.015 8.000	8	+0.055 +0.025	•	•	•						
6.990 7.055	7	-0.013 -0.028	9.015 9.000	9	+0.055 +0.025								•	•	•						
7.990 8.055								8	-0.013 -0.028	10.015 10.000	10	+0.055 +0.025	•	•	•	•					
9.990 10.058	10	-0.016 -0.034	12.018 12.000	12	+0.065 +0.030								4			•	•	•			
11.990 12.058								12	-0.016 -0.034	14.018 14.000	14	+0.065 +0.030	4			•	•	•			
13.990 14.058	14	-0.016 -0.034	16.018 16.000	16	+0.065 +0.030								4			•	•	•	•	•	
14.990 15.058								15	-0.016 -0.034	17.018 17.000	17	+0.065 +0.030	4				•	•	•	•	
15.990 16.058	16	-0.016 -0.034	18.018 18.000	18	+0.065 +0.030								4				•	•	•	•	
16.990 17.061								17	-0.016 -0.034	19.021 19.000	19	+0.075 +0.035	4				•	•	•	•	•
17.990 18.061	18	-0.016 -0.034	20.021 20.000	20	+0.075 +0.035								4				•	•	•	•	•
19.990 20.071								20	-0.016 -0.034	23.021 23.000	23	+0.075 +0.035	4					•	•	•	•
21.990 22.071	22	-0.020 -0.041	25.021 25.000	25	+0.075 +0.035	1.475	4									•	•	•	•	•	
23.990 24.071						24	-0.020 -0.041	27.021 27.000	27	+0.075 +0.035	1.505	4				•	•	•	•	•	
24.990 25.071	25	-0.020 -0.041	28.021 28.000	28	+0.075 +0.035							6					•	•	•	•	
27.990 28.085						28	-0.020 -0.041	32.025 32.000	32	+0.085 +0.045		6					•	•	•	•	
29.990 30.085	30	-0.020 -0.041	34.025 34.000	34	+0.085 +0.045							6					•	•	•	•	
31.990 32.085						32	-0.025 -0.050	36.025 36.000	36	+0.085 +0.045	1.970	6					•	•	•	•	•
34.990 35.085	35	-0.025 -0.050	39.025 39.000	39	+0.085 +0.045						2.005	6					•	•	•	•	•
37.990 38.085						38	-0.025 -0.050	42.025 42.000	42	+0.085 +0.045		6						•	•	•	•
39.990 40.085	40	-0.025 -0.050	44.025 44.000	44	+0.085 +0.045							8						•	•	•	•
44.990 45.105						45	-0.025 -0.050	50.025 50.000	50	+0.085 +0.045		8						•	•	•	•
49.990 50.110	50	-0.030 -0.060	55.030 55.000	55	+0.100 +0.055							8						•	•	•	•
54.990 55.110						55	-0.030 -0.060	60.030 60.000	60	+0.100 +0.055	2.460	8						•	•	•	•
59.990 60.110	60	-0.030 -0.060	65.030 65.000	65	+0.100 +0.055						2.505	8							•	•	•
64.990 65.110						65	-0.030 -0.060	70.030 70.000	70	+0.100 +0.055		8							•	•	•
59.990 70.110	70	-0.030 -0.060	75.030 75.000	75	+0.100 +0.055							8								•	•

Customized sizes also can be produced

ID	Shaft		Housing		OD		Wall	H	L											
	d	d _s	D _h	D	T	-0.00 -0.40 (d<28L -0.30)														
								45	50	55	60	65	70	75	80	90	100	110	120	
74.990 75.110	75	-0.030 -0.060	80.030 80.000	80	+0.100 +0.055	2.440	8	●	●	●	●	●	●	●	●					
80.020 80.155	80	-0.000 -0.035	85.035 85.000	85	+0.120 +0.070		9.5	●	●	●	●	●	●	●	●	●	●			
85.020 85.155	85	-0.000 -0.035	90.035 90.000	90	+0.120 +0.070		9.5	●	●	●	●	●	●	●	●	●	●			
90.020 90.155	90	-0.000 -0.035	95.035 95.000	95	+0.120 +0.070		9.5		●	●	●	●	●	●	●	●	●	●		
95.020 95.155	95	-0.000 -0.035	100.035 100.000	100	+0.120 +0.070		2.490	9.5		●	●	●	●	●	●	●	●	●		
100.020 100.155	100	-0.000 -0.035	105.035 105.000	105	+0.120 +0.070		9.5		●	●	●	●	●	●	●	●	●	●	●	
105.020 105.155	105	-0.000 -0.035	110.035 110.000	110	+0.120 +0.070		9.5			●	●	●	●	●	●	●	●	●	●	●
110.020 110.155	110	-0.000 -0.035	115.035 115.000	115	+0.120 +0.070		9.5			●	●	●	●	●	●	●	●	●	●	●
115.070 115.210	115	-0.000 -0.040	120.035 120.000	120	+0.170 +0.100		9.5			●	●	●	●	●	●	●	●	●	●	●
120.070 120.210	120	-0.000 -0.040	125.035 125.000	125	+0.170 +0.100		9.5			●	●	●	●	●	●	●	●	●	●	●
125.070 125.210	125	-0.000 -0.040	130.040 130.000	130	+0.170 +0.100	9.5				●	●	●	●	●	●	●	●	●	●	
130.070 130.210	130	-0.000 -0.040	135.040 135.000	135	+0.170 +0.100	9.5				●	●	●	●	●	●	●	●	●	●	
135.070 135.210	135	-0.000 -0.040	140.040 140.000	140	+0.170 +0.100	9.5				●	●	●	●	●	●	●	●	●	●	
140.070 140.210	140	-0.000 -0.040	145.040 145.000	145	+0.170 +0.100	9.5				●	●	●	●	●	●	●	●	●	●	
145.070 145.210	145	-0.000 -0.040	150.040 150.000	150	+0.170 +0.100	9.5				●	●	●	●	●	●	●	●	●	●	
150.070 150.210	150	-0.000 -0.040	155.040 155.000	155	+0.170 +0.100	9.5					●	●	●	●	●	●	●	●	●	
155.070 155.210	155	-0.000 -0.040	160.040 160.000	160	+0.170 +0.100	9.5					●	●	●	●	●	●	●	●	●	
160.070 160.210	160	-0.000 -0.040	165.040 165.000	165	+0.170 +0.100	2.415	9.5					●	●	●	●	●	●	●	●	
165.070 165.210	165	-0.000 -0.040	170.040 170.000	170	+0.170 +0.100	2.465	9.5					●	●	●	●	●	●	●	●	
170.070 170.210	170	-0.000 -0.040	175.040 175.000	175	+0.170 +0.100	9.5					●	●	●	●	●	●	●	●	●	
175.070 175.210	175	-0.000 -0.040	180.040 180.000	180	+0.170 +0.100	9.5						●	●	●	●	●	●	●	●	
180.070 180.210	180	-0.000 -0.046	185.046 185.000	185	+0.210 +0.130	9.5						●	●	●	●	●	●	●	●	
185.070 185.210	185	-0.000 -0.046	190.046 190.000	190	+0.210 +0.130	9.5						●	●	●	●	●	●	●	●	
190.070 190.210	190	-0.000 -0.046	195.046 195.000	195	+0.210 +0.130	9.5							●	●	●	●	●	●	●	
195.070 195.210	195	-0.000 -0.046	200.046 200.000	200	+0.210 +0.130	9.5							●	●	●	●	●	●	●	
200.070 200.210	200	-0.000 -0.046	205.046 205.000	205	+0.210 +0.130	9.5									●	●	●	●	●	
205.070 205.210	205	-0.000 -0.046	210.046 210.000	210	+0.210 +0.130	9.5									●	●	●	●	●	
210.070 210.210	210	-0.000 -0.046	215.046 215.000	215	+0.210 +0.130	9.5									●	●	●	●	●	

Customized sizes also can be produced

Ordering : / / x x = pcs



Unit: mm

Shaft d_s	ID $d^{+0.25}$		Center M	OD $D_{-0.25}$		Thickness $T_{-0.05}$	Size for Installation		
				Hole(H)	t		D_1		
8	10	+0.25 +0.00	15	20	-0.00 -0.25	1.5	1.5	1	20
10	12	+0.25 +0.00	18	24	-0.00 -0.25	1.5	1.5	1	24
12	14	+0.25 +0.00	20	26	-0.00 -0.25	1.5	2	1	26
14	16	+0.25 +0.00	23	30	-0.00 -0.25	1.5	2	1	30
16	18	+0.25 +0.00	25	32	-0.00 -0.25	1.5	2	1	32
18	20	+0.25 +0.00	28	36	-0.00 -0.25	1.5	3	1	36
20	22	+0.25 +0.00	30	38	-0.00 -0.25	1.5	3	1	38
22	24	+0.25 +0.00	33	42	-0.00 -0.25	1.5	3	1	42
24	26	+0.25 +0.00	35	44	-0.00 -0.25	1.5	3	1	44
25	28	+0.25 +0.00	38	48	-0.00 -0.25	1.5	4	1	48
30	32	+0.25 +0.00	43	54	-0.00 -0.25	1.5	4	1	54
35	38	+0.25 +0.00	50	62	-0.00 -0.25	1.5	4	1	62
40	42	+0.25 +0.00	54	66	-0.00 -0.25	1.5	4	1	66
45	48	+0.25 +0.00	61	74	-0.00 -0.25	1.5	4	1.5	74
50	52	+0.25 +0.00	65	78	-0.00 -0.25	2.0	4	1.5	78
60	62	+0.25 +0.00	76	90	-0.00 -0.25	2.0	4	1.5	90

Customized sizes also can be produced

Ordering : / / x x = pcs