


Silicon Rubber / Urethane Molded Bearings

Flat



Type Bearing		Material	Hardness	Color	
Steel	Stainless Steel				
UMBK	UMSBK	Urethane	Shore A95	Black	
UMBKW	UMSBKW		Shore A90	White	
UMB	UMSB		Shore A90	Black	
UMBW	UMSW		Shore A70	White	
UMBG	UMSG		Shore A70	Black	
UMBGW	UMSGW		Shore A50	White	
UMBL	-		Shore A50	Black	
UMBLW	-		Shore A50	White	
UMBD	-		Antistatic Urethane	Shore A90	Gray
SUMBB	SUMSB		Silicon Rubber	Shore A70	Light Gray

Urethane (white) may turn yellow over time.

Shape A: $D_{\pm 0.1}$, $B_{\pm 0.2}$

Shape B: $D_{\pm 0.3}$, B_1 , $B_{\pm 0.5}$

Bearing Accuracy JIS B 1514, 0 Class

For bearing detailed dimensions, see P989.

Shape A

Part Number	Type	d	D	Allowable Load N (kgf)					B	D1	r (min.)	Relative Dimension			Used Bearing	
				Urethane								Silicon Shore A70	Ds (min.)	R1 (max.)		R
				Shore A95	Shore A90	Shore A70	Shore A50	Shore A70								
3	10	38(3.8)	28(2.8)	9(0.9)	4(0.4)	7(0.7)	3	7	0.1	3.9	4.1	0.1	W683ZZA			
12	12	53(5.4)	34(3.5)	10(1)	6(0.6)	9.8(1)	4	9	0.15	5	5.2	0.2	W684AX50ZZ			
13	13	66(6.7)	44(4.5)	13(1.3)	7(0.7)	13(1.3)	4	9	0.15	5	5.2	0.2	W684AX50ZZ			
16	16	79(8.1)	59(6)	16(1.6)	6(0.6)	18(1.8)	5	9	0.2	6.6	6.9	0.2	624ZZ			
16	16	79(8.1)	59(6)	16(1.6)	6(0.6)	18(1.8)	5	9	0.2	6.6	6.9	0.2	WBC5-13ZZ			
20	20	102(10.4)	78(8)	20(2)	9(0.9)	24(2.4)	5	16	0.3	7	7.6	0.3	625ZZ			
20	20	114(11.7)	88(8.8)	23(2.3)	15(1.5)	24(2.4)	5	16	0.3	7	7.6	0.3	625ZZ			
28	28	218(22.2)	157(16)	44(4.5)	39(4)	47(4.8)	6	19	0.3	8	9.5	0.2	626ZZ			
28	28	208(21.2)	157(16)	42(4.3)	35(3.6)	47(4.8)	6	19	0.3	8	9.5	0.2	626ZZ			
30A	30A	-	176(18)	81(8.3)	65(6.7)	53(5.4)	7	22	0.3	10	12.2	0.3	608ZZ			
30A	30A	-	176(18)	81(8.3)	65(6.7)	53(5.4)	7	22	0.3	10	12.2	0.3	608ZZ			
40A	40A	-	274(28)	136(13.9)	93(9.5)	82(8.4)	8	26	0.3	12	13.5	0.3	6000ZZ			
40A	40A	-	274(28)	136(13.9)	93(9.5)	82(8.4)	8	26	0.3	12	13.5	0.3	6000ZZ			
45A	45A	-	343(35)	109(11.1)	102(10.5)	103(10.5)	9	30	0.6	14	16	0.6	6200ZZ			
45A	45A	-	343(35)	109(11.1)	102(10.5)	103(10.5)	9	30	0.6	14	16	0.6	6200ZZ			
55A	55A	-	490(50)	225(22.9)	176(18.1)	147(15)	14	47	1	25	28	0.3	6204ZZ			
55A	55A	-	490(50)	225(22.9)	176(18.1)	147(15)	14	47	1	25	28	0.3	6204ZZ			
65A	65A	-	750(70)	333(34)	250(25.8)	226(23)	15	52	1	30	32	1	6205ZZ			
65A	65A	-	750(70)	333(34)	250(25.8)	226(23)	15	52	1	30	32	1	6205ZZ			

Urethane (white) may turn yellow over time.

Ordering Example: Part Number - D UMBB10 - 30A

Only d4 ~ 8 are available for * marked types. Allowable load is for reference.

Shape B

Part Number	Type	d	D	Allowable Load N (kgf)					B	D1	B1	r (min.)	Relative Dimension			Used Bearing	
				Urethane									Silicon Shore A70	Ds (min.)	R1 (max.)		R
				Shore A95	Shore A90	Shore A70	Shore A50	Shore A70									
8	30	248(25.3)	176(18)	81(8.3)	65(6.7)	53(5.4)	11	26	8	0.3	10	12.2	0.3	608ZZ			
30	30	201(20.5)	176(18)	81(8.3)	65(6.7)	53(5.4)	11	26	8	0.3	10	12.2	0.3	6000ZZ			
40	40	412(42)	274(28)	136(13.9)	93(9.5)	82(8.4)	12	32	9	0.3	14	16	0.6	6200ZZ			
40	40	369(37.6)	274(28)	122(12.4)	96(9.9)	82(8.4)	12	32	9	0.3	14	16	0.6	6200ZZ			
45	45	534(54.5)	343(35)	109(11.1)	102(10.5)	103(10.5)	15	35	11	0.6	19	20	0.6	6202ZZ			
45	45	391(39.9)	343(35)	109(11.1)	102(10.5)	103(10.5)	15	35	11	0.6	19	20	0.6	6202ZZ			
55	55	674(68.7)	490(50)	225(22.9)	176(18.1)	147(15)	18	47	14	1	25	28	0.3	6204ZZ			
55	55	674(68.7)	490(50)	225(22.9)	176(18.1)	147(15)	18	47	14	1	25	28	0.3	6204ZZ			
65	65	999(101.9)	750(70)	333(34)	250(25.8)	226(23)	19	52	15	1	30	32	1	6205ZZ			
65	65	999(101.9)	750(70)	333(34)	250(25.8)	226(23)	19	52	15	1	30	32	1	6205ZZ			

Ordering Example: Part Number - D - (DC) UMBB6 - 20 - DC18

Alteration: DC

Spec. O.D. Dimension Changes the D dimension in 1mm increment. $D1+2 \leq DC \leq D-1$ (Ordering Code) DC18

Properties of Antistatic Urethane

Item	Unit	UMBD
Specific Volume Resistivity	$\Omega \cdot \text{cm}$	2.1×10^8
Surface Resistivity	Ω	4.0×10^9

Test Conditions (Temperature 30°C / Humidity 60%)

Listed values are not guaranteed values but an example of measured values.

Only d4 ~ 8 are available for * marked types. Allowable load is for reference.


Unit Price

d	D	Steel Bearing										Stainless Steel Bearing									
		Urethane					Silicon					Urethane					Silicon				
		Shore A95	Shore A90	Shore A70	Shore A50	Antistatic Urethane Shore A90	Silicon Shore A70	Shore A95	Shore A90	Shore A70	Shore A50	Urethane Shore A95	Urethane Shore A90	Urethane Shore A70	Urethane Shore A50	Silicon Shore A70					
3	10	UMBK	UMBKW	UMB	UMBG	UMBL	UMBLW	UMBD	SUMBB	UMSBK	UMSBKW	UMSB	UMSW	UMSG	UMSGW	SUMSB					
3	12																				
4	13																				
4	16																				
5	16																				
5	20																				
6	20																				
6	28																				
8	28																				
8	30A																				
8	30																				
10	40																				
10	30A																				
10	40A																				
15	40																				
15	45																				
15	40A																				
15	45A																				
20	45																				
20	55																				
20	45A																				
20	55A																				
25	65																				
25	65A																				

Silicon Rubber / Urethane Molded Bearings

R Type / Hubbed Type

R Type



Type Bearing		Material	Hardness	Color
Steel	Stainless Steel			
UMBRR	UMSRR	Urethane	Shore A90	Black
UMBWR	UMSWR			White
SUMBBR	-	Silicon Rubber	Shore A70	Light Gray

Urethane (white) may turn yellow over time.

Shape A: $D_{\pm 0.1}$, $B_{\pm 0.2}$

Shape B R: $D_{\pm 0.3}$, B_1 , $B_{\pm 0.5}$

Bearing Accuracy JIS B 1514, 0 Class

For bearing detailed dimensions, see P989.

Shape A

Part Number	Type	d	D	Allowable Load N (kgf)				B	D1	r (min.)	R	Relative Dimension			Bearing Used	
				Urethane								Silicon Shore A70	Ds (min.)	R1 (max.)		R
				Shore A95	Shore A90	Shore A70	Shore A50									
3	12	34 (3.5)	9.8 (1)	3	7	0.1	3.9	4.1	0.1	W683ZZA						
13	13	44 (4.5)	13 (1.3)	4	9	0.15	5	5.2	0.2	W684AX50ZZ						
16	16	59 (6)	18 (1.8)	5	13	0.2	5.6	6.2	0.2	624ZZ						
16	16	59 (6)	18 (1.8)	5	13	0.2	5.6	6.2	0.2	WBC5-13ZZ						
20	20	78 (8)	24 (2.4)	5	16	0.3	6.6	6.9	0.2	625ZZ						
20	20	78 (8)	24 (2.4)	5	16	0.3	6.6	6.9	0.2	625ZZ						
28	28	157 (16)	47 (4.8)	6	19	0.3	7.6	7.8	0.2	626ZZ						
28	28	157 (16)	47 (4.8)	6	19	0.3	7.6	7.8	0.2	626ZZ						
28	28	176 (18)	52 (5.2)	7	22	0.3	8	9.5	0.3	626ZZ						
28	28	176 (18)	52 (5.2)	7	22	0.3	8	9.5	0.3	626ZZ						
28	28	176 (18)	52 (5.2)	7	22	0.3	10	12.2	0.3	608ZZ						

Ordering Example: Part Number - D UMBBR25 - 65

Only d4 ~ 8 are available for * marked types. Allowable load is for reference.

Shape B

Part Number	Type	d	D	Allowable Load N (kgf)				B	D1	B1	r (min.)	R	Relative Dimension			Bearing Used	
				Urethane									Silicon Shore A70	Ds (min.)	R1 (max.)		R
				Shore A95	Shore A90	Shore A70	Shore A50										
8	30	176(18)	53(5.4)	11	22	7	10	12.2	0.3	12	13.5	0.3	608ZZ				
10	30	176(18)	53(5.4)	11	22	7	10	12.2	0.3	12	13.5	0.3	6000ZZ				
40	40	274(28)	82(8.4)	12	32	9	14	16	0.6	17	19	0.3	6200ZZ				
40	40	274(28)	82(8.4)	12	32	9	17	19	0.3	17	19	0.3	6002ZZ				
45	45	343(35)	103(10.5)	15	35	11	19	20	0.6	19	20	0.6	6202ZZ				
45	45	343(35)	103(10.5)	15	35	11	19	20	0.6	19	20	0.6	6202ZZ				
55	55	490(50)	147(15)	18	47	14	22	24	0.3	22	24	0.3	6904ZZ				
55	55	490(50)	147(15)	18	47	14	22	24	0.3	22	24	0.3	6904ZZ				
65	65	750(70)	226(23)	19	52	15											