

Silicon Rubber / Urethane Molded Bearings

Flat

Silicon Rubber / Urethane Molded Bearings

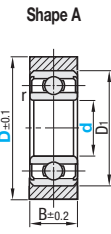
R Type / Hubbed Type



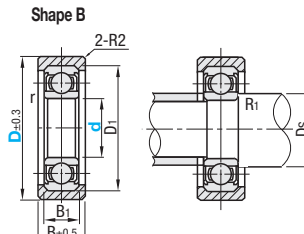
☞ Urethane (white) may turn yellow over time.

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

Shape A



Shape B



Bearing Accuracy JIS B 1514, 0 Class

Shape A

Part Number	Type	d	D	Allowable Load N (kgf)					B	D1	r (min.)	Relative Dimension			Used Bearing
				Urethane								Silicon	Ds (min.)	R1 (max.)	
				Shore A95	Shore A90	Shore A70	Shore A50	Shore A70							
Urethane UMBBK UMSBK UMBBKW UMSBKW UMBB UMSB UMBW UMSW UMBG UMSG UMBGW UMSGW UMBL UMBLW	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	53(5.4)	34(3.5)	10(1)	6(0.6)	9.8(1)	4	9	0.15	5	5.2	0.2	W684AX50ZZ	
	*4	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	624ZZ	
		16	79(8.1)	59(6)	16(1.6)	6(0.6)	18(1.8)	13	0.2	5.6	6.2	6.6	6.9	0.2	WBC5-13ZZ
	*5	16	79(8.1)	59(6)	16(1.6)	6(0.6)	18(1.8)	13	0.2	5.6	6.2	6.6	6.9	0.2	624ZZ
		20	102(10.4)	78(8)	20(2)	9(0.9)	24(2.4)	16	0.3	7	7.6	0.3	625ZZ		
	*6	20	114(11.7)	88(8.8)	23(2.3)	15(1.5)	24(2.4)	15	0.2	7.6	7.8	0.2	696ZZ		
		28	218(22.2)	157(16)	44(4.5)	39(4)	47(4.8)	6	19	8	9.5	0.3	626ZZ		
	*8	28	208(21.2)	157(16)	42(4.3)	35(3.6)	47(4.8)	7	22	10	12.2	0.3	608ZZ		
		30A	-	176(18)	81(8.3)	65(6.7)	53(5.4)	8	26	12	13.5	0.3	600ZZ		
Antistatic Urethane UMBD	10	40A	-	274(28)	136(13.9)	93(9.5)	82(8.4)	9	30	0.6	14	16	0.6	6200ZZ	
Silicon Rubber SUMBB *SUMSB	15	40A	-	274(28)	122(12.4)	96(9.9)	82(8.4)	9	32	0.3	17	19	0.3	6002ZZ	
		45A	-	343(35)	109(11.1)	102(10.5)	103(10.5)	11	35	0.6	19	20	0.6	6202ZZ	
	20	45A	-	490(50)	225(22.9)	176(18.1)	147(15)	14	47	25	28	0.3	6904ZZ		
		55A	-	490(50)	225(22.9)	176(18.1)	147(15)	14	47	25	28	0.3	6204ZZ		
25	65A	-	750(70)	333(34)	250(25.8)	226(23)	15	52	1	30	32	1	6205ZZ		

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

☞ See price chart for available sizes.

Ordering Example

Part Number - D

UMBB10 - 30A

Shape B

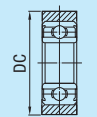
Part Number	Type	d	D	Allowable Load N (kgf)					B	D1	B1	r (min.)	Relative Dimension			Used Bearing
				Urethane									Silicon	Ds (min.)	R1 (max.)	
				Shore A95	Shore A90	Shore A70	Shore A50	Shore A70								
Urethane UMBBK UMSBK UMBBKW UMSBKW UMBB UMSB UMBW UMSW UMBG UMSG UMBGW UMSGW UMBL UMBLW	8	30	248(25.3)	176(18)	81(8.3)	65(6.7)	53(5.4)	11	22	7	0.3	10	12.2	0.3	608ZZ	
		30	201(20.5)	136(13.9)	93(9.5)	82(8.4)	11	26	8	0.3	12	13.5	0.3	6000ZZ		
	10	40	412(42)	274(18)	136(13.9)	93(9.5)	82(8.4)	12	32	9	0.6	14	16	0.6	6200ZZ	
		40	369(37.6)	274(18)	122(12.4)	96(9.9)	82(8.4)	12	32	9	0.3	17	19	0.3	6002ZZ	
	15	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	391(39.9)	343(35)	130(13.3)	98(10.1)	103(10.5)	12	37	9	0.3	22	24	0.3	6904ZZ	
	20	55	674(68.7)	490(50)	225(22.9)	176(18.1)	147(15)	18	47	14	25	28	0.3	6204ZZ		
		65	999(101.9)	750(70)	333(34)	250(25.8)	226(23)	19	52	15	1	30	32	1	6205ZZ	
	Antistatic Urethane UMBD	20	55	674(68.7)	490(50)	225(22.9)	176(18.1)	147(15)	18	47	14	25	28	0.3	6204ZZ	
	65		999(101.9)	750(70)	333(34)	250(25.8)	226(23)	19	52	15	1	30	32	1	6205ZZ	
Silicon Rubber SUMBB SUMSB	25	65	999(101.9)	750(70)	333(34)	250(25.8)	226(23)	19	52	15	1	30	32	1	6205ZZ	

☞ See price chart for available sizes. ☞ Allowable load is for reference.

Alterations

Part Number - D - (DC)

UMBB6 - 20 - DC18

Alteration	Code	Spec.
	DC	Q.D. Dimension Changes the D dimension in 1mm increment. ☞ D1+2≤DC≤D-1 (Ordering Code) DC18

Properties of Antistatic Urethane

Item	Unit	UMBD
Specific Volume Resistivity	Ω·cm	2.1×10 ⁸
Surface Resistivity	Ω	4.0×10 ¹⁰

☞ Test Conditions (Temperature 30°C / Humidity 60%)
☞ Listed values are not guaranteed values but an example of measured values.

d	D	Unit Price									
		Steel Bearing					Stainless Steel Bearing				
		Urethane					Urethane				
		Shore A95	Shore A90	Shore A70	Shore A50	Antistatic Urethane	Shore A95	Shore A90	Shore A70	Silicon	
		UMBBK	UMBBKW	UMBB	UMBW	UMBG	UMSBK	UMSBKW	UMSB	UMSW	UMSG
		UMBBKW	UMBB	UMBW	UMBG	UMBL	UMSGW	UMBLW	UMBL	UMBLW	UMBD
		UMBBKW	UMBB	UMBW	UMBG	UMBL	UMSGW	UMBLW	UMBL	UMBLW	UMBD
3	10										
	12										
4	13										
	16										
5	16										
	20										
6	20										
	28										
8	28										
	30										
	30A	-									
	30										
10	40										
	40										
	30A	-									
	40A	-									
15	40										
	45										
	40A	-									
	45A	-									
20	45										
	55										
	45A	-									
	55A	-									
25	65										
	65A	-									

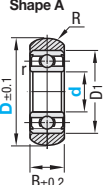
R Type



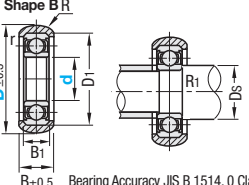
☞ Urethane (white) may turn yellow over time.

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

Shape A



Shape B R



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	Ds (min.)	R1 (max.)	
				Shore A95	Shore A90	Shore A70	Shore A50	Shore A70								
Urethane UMBBR UMSBR UMBWR UMSWR Silicon Rubber SUMBBR	3	12	34 (3.5)	9.8 (1)	3	7	0.1	3.9	4.1	0.1	W683ZZA					
		13	44 (4.5)	13 (1.3)	4	9	0.15	5	5.2	0.2	W684AX50ZZ					
	*4	16	59 (6)	18 (1.8)	5	13	0.2	5.6	6.2	0.2	624ZZ					
		16	59 (6)	18 (1.8)	5	13	0.2	5.6	6.2	0.2	WBC5-13ZZ					
	*5	20	78 (8)	24 (2.4)	15	16	0.3	7	7.6	0.3	625ZZ					
		20	78 (8)	24 (2.4)	15	16	0.3	7.6	7.8	0.2	696ZZ					
	*6	28	157 (16)	47 (4.8)	6	19	0.3	8	9.5	0.3	626ZZ					
		28	176 (18)	47 (4.8)	7	22	0.3	10	12.2	0.3	608ZZ					
	*8	28	176 (18)	47 (4.8)	7	22	0.3	10	12.2	0.3	608ZZ					
		28	176 (18)	47 (4.8)	7	22	0.3	10	12.2	0.3	608ZZ					

☞ 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	Ds (min.)	R1 (max.)	
				Shore A95	Shore A90	Shore A70	Shore A50	Shore A70									
Urethane UMBBR UMSBR UMBWR UMSWR Silicon Rubber SUMBBR	8	30	176(18)	53(5.4)	11	22	7	0.3	10	12.2	0.3	608ZZ					
		30	176(18)	53(5.4)	11	26	8	0.3	12	13.5	0.3	6000ZZ					
	10	40	274(18)	82(8.4)	12	30	9	0.6	14	16	0.6	6200ZZ					
		40	274(18)	82(8.4)	12	32	9	0.3	17	19	0.3	6002ZZ					
	15	45	343(35)	103(10.5)	15	35	11	0.6	19	20	0.6	6202ZZ					
		45	343(35)	103(10.5)	12	37	9	0.3	22	24	0.3	6904ZZ					
	20	55	490(50)	147(15)	18	47	14	1	25	28	1	6204ZZ					
		65	750(70)	226(23)	19	52	15	1	30	32	1	6205ZZ					
	25	65	750(70)	226(23)	19	52	15	1	30	32	1	6205ZZ					
		65	750(70)	226(23)	19	52	15	1	30	32	1	6205ZZ					

☞ Allowable load is for reference.

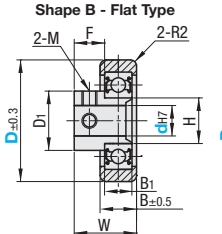
d	D	Unit Price		
		Urethane (Shore A90)	Silicon Rubber (Shore A70)	Stainless Steel Bearing (Shore A90)
3	12			-
4	13			-
	16			-
5	16			-
	20			-
6	20			-
	28			-
8	28			-
	30			-
10	30			-
	40			-
	40			-
15	40			-
	45			-
20	45			-
	55			-
25	55			-
	65			-

Hubbed Type

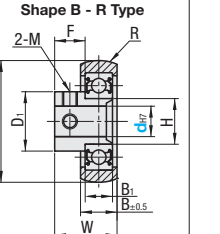


Type	Type	Bearing	Material	Hardness	Hub Material	Color
UMBBKBOS	Flat	Steel	Urethane	A95	Free Cutting Steel (Electroless Nickel Plating)	Black
UMBBBOS				A90		
UMBBGBOS				A70		
UMBLBOS				A50		
UMBBBOSR	R Type			A90		

Shape B - Flat Type



Shape B - R Type



Bearing Accuracy JIS B 1514, 0 Class

☞ For bearing detailed dimensions, see P989.

Part Number	Type	d	D	Allowable Load N (kgf)										W	B	D1	B1	H	F	M	R	Used Bearing										
				Shore A95					Shore A90														Shore A70					Shore A50				
				Shore A95	Shore A90	Shore A70	Shore A50	Shore A70	Shore A95	Shore A90	Shore A70	Shore A50	Shore A70										Shore A95	Shore A90	Shore A70	Shore A50	Shore A70	Shore A95	Shore A90	Shore A70	Shore A50	
UMBBKBOS	Flat	6	30	201(20.5)	176(18)	94(9.6)	51(5.2)	19.5	11	13	8	10	10	4	15	6000ZZ																
8		40	369(37.6)	274(18)	122(12.4)	96(9.9)	20.																									