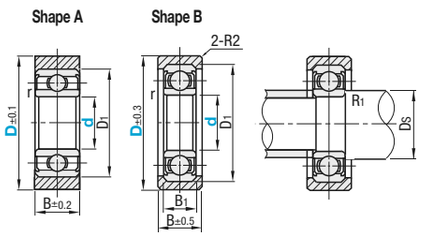
Silicon Rubber / Urethane Molded Bearings

Flat

RoHS

Urethane (white) may turn yellow over time.

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



Bearing Accuracy JIS B 1514, 0 Class

For bearing detailed dimensions, see **P.989**.

Shape A

Part Number Type	d	D	Allowable Load N (kgf) Urethane Shore A95	Urethane Shore A90	Urethane Shore A70	Urethane Shore A50	Silicon Shore A70	B	D1	r (min.)	Relative Dimension Ds (min.)	Ds (max.)	R1 (max.)	Used Bearing
Urethane UMBBK UMSBK	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
UMBBKW UMSBKW		12	53(5.4)	34(3.5)	10(1)	6(0.6)	9.8(1)							
UMBB UMSB	*4	13	66(6.7)	44(4.5)	13(1.3)	7(0.7)	13(1.3)	4	9	0.15	5	5.2		W684AX50ZZ
UMBW *UMSW		16	79(8.1)	59(6)	16(1.6)	6(0.6)	18(1.8)	5	13	0.2	5.6	6.2	0.2	624ZZ
UMBG *UMSG	*5	16	79(8.1)		16(1.6)						6.6	6.9		WBC5-13ZZ
UMBGW *UMSGW		20	102(10.4)	78(8)	20(2)	9(0.9)	24(2.4)		16	0.3	7	7.6	0.3	625ZZ
UMBL	*6	20	114(11.7)		23(2.3)	15(1.5)			15	0.2	7.6	7.8	0.2	696ZZ
UMBLW		28	218(22.2)	157(16)	44(4.5)	39(4)	47(4.8)	6	19	0.3	8	9.5	0.3	626ZZ
	*8	28	208(21.2)		42(4.3)	35(3.6)		7	22		10	12.2		608ZZ
Antistatic Urethane		30A		176(18)	81(8.3)	65(6.7)	53(5.4)							608ZZ
UMBD	10	30A	-		94(9.6)	51(5.2)		8	26		12	13.5		6000ZZ
		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			122(12.4)	96(9.9)			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
		45A			130(13.3)	98(10.1)		9	37	0.3	22	24	0.3	6904ZZ
	20	55A	-	490(50)	225(22.9)	176(18.1)	147(15)	14	47	1	25	28	1	6204ZZ
	25	65A	-	750(70)	333(34)	250(25.8)	226(23)	15	52		30	32		6205ZZ

Only d4 ~ 8 are available for * marked types.
See price chart for available sizes.
Allowable load is for reference.

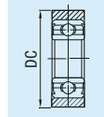
Ordering Example: Part Number - D → UMBB10 - 30A

Shape B

Part Number Type	d	D	Allowable Load N (kgf) Urethane Shore A95	Urethane Shore A90	Urethane Shore A70	Urethane Shore A50	Silicon Shore A70	B	D1	B1	r (min.)	Relative Dimension Ds (min.)	Ds (max.)	R1 (max.)	Used Bearing
Urethane UMBBK UMSBK	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
UMBBKW UMSBKW	10	30	201(20.5)		94(9.6)	51(5.2)			26	8		12	13.5		6000ZZ
UMBB UMSB		40	412(42)	274(18)	136(13.9)	93(9.5)	82(8.4)		30	9	0.6	14	16	0.6	6200ZZ
UMBW UMSW	15	40	369(37.6)		122(12.4)	96(9.9)		12	32		0.3	17	19	0.3	6002ZZ
UMBG UMSG		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
UMBGW UMSGW		45	391(39.9)		130(13.3)	98(10.1)		12	37	9	0.3	22	24	0.3	6904ZZ
UMBL	20	55	674(68.7)	490(50)	225(22.9)	176(18.1)	147(15)	18	47	14	1	25	28	1	6204ZZ
UMBLW															
Antistatic Urethane UMBD															
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	0.O.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	4.0×10^9

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

Silicon Rubber / Urethane Molded Bearings

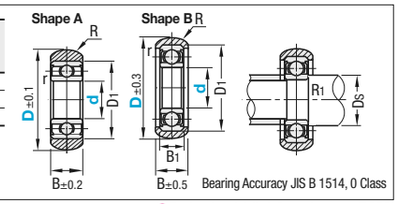
R Type / Hubbed Type

R Type

RoHS

Urethane (white) may turn yellow over time.

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



Bearing Accuracy JIS B 1514, 0 Class

For bearing detailed dimensions, see **P.989**.

Shape A

Part Number Type	d	D	Allowable Load N (kgf) Urethane Shore A90	Silicon Shore A70	B	D1	r (min.)	R	Relative Dimension Ds (min.)	Ds (max.)	R1 (max.)	Bearing Used
Urethane UMBBR *UMSBR	3	12	34 (3.5)	9.8 (1)	3	7	0.1	5	3.9	4.1	0.1	W683ZZA
UMBWR *UMSWR	*4	13	44 (4.5)	13 (1.3)	4	9	0.15		5	5.2		W684AX50ZZ
		16	59 (6)	18 (1.8)	5	13	0.2		5.6	6.2	0.2	624ZZ
Silicon Rubber SUMBBR	*5	16							6.6	6.9		WBC5-13ZZ
		20	78 (8)	24 (2.4)		16	0.3		7	7.6	0.3	625ZZ
	*6	20				15	0.2		7.6	7.8	0.2	696ZZ
		28	157 (16)	47 (4.8)	6	19	0.3		8	9.5	0.3	626ZZ
	*8	28	176 (18)		7	22			10	12.2		608ZZ

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

Ordering Example: Part Number - D → UMBBR25 - 65

Shape B

Part Number Type	d	D	Allowable Load N (kgf) Urethane Shore A90	Silicon Shore A70	B	D1	B1	r (min.)	R	Relative Dimension Ds (min.)	Ds (max.)	R1 (max.)	Bearing Used
Urethane UMBBR UMSBR	8	30	176(18)	53(5.4)	11	22	7	0.3	15	10	12.2	0.3	608ZZ
UMBWR UMSWR	10	30				26	8			12	13.5		6000ZZ
		40	274(18)	82(8.4)		30	9	0.6		14	16	0.6	6200ZZ
Silicon Rubber SUMBBR	15	40			12	32		0.3		17	19	0.3	6002ZZ
		45	343(35)	103(10.5)	15	35	11	0.6		19	20	0.6	6202ZZ
	20	45			12	37	9	0.3		22	24	0.3	6904ZZ
		55	490(50)	147(15)	18	47	14	1	20	25	28	1	6204ZZ
	25	65	750(70)	226(23)	19	52	15			30	32		6205ZZ

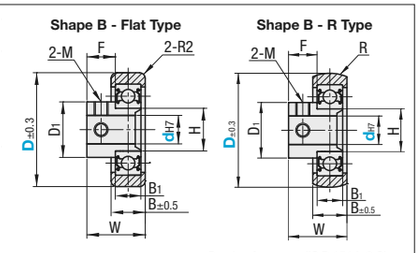
Allowable load is for reference.

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

Hubbed Type

RoHS

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



Bearing Accuracy JIS B 1514, 0 Class

For bearing detailed dimensions, see **P.989**.

Part Number Type	d	D	Allowable Load N (kgf) Shore A95	Shore A90	Shore A70	Shore A50	W	B	D1	B1	H	F	M	R	Used Bearing
UMBBKBOS	6	30	201(20.5)	176(18)	94(9.6)	51(5.2)	19.5	11	13	8	10	10	4	15	6000ZZ
UMBBBOS	8	40	369(37.6)	274(18)	122(12.4)	96(9.9)	20.5	12	19	9	15				6002ZZ
UMBGBOS	10	40													
UMBLBOS	15	45	391(39.9)	343(35)	130(13.3)	98(10.1)	22.5		23		20	12	5		6904ZZ
UMBBBOSR	20	65	999(101.9)	750(70)	333(34)	250(25.8)	29.0	19	30	15	25			20	6205ZZ

Ordering Example: Part Number - D → UMBBBOS6 - 30

d	D	Unit Price: Flat Shore A95 UMBBKBOS	Flat Shore A90 UMBBBOS	Flat Shore A70 UMBGBOS	Flat Shore A50 UMBLBOS	R Type Shore A90 UMBBBOSR
6	30					
8	40					
10	40					
15	45					
20	65					