

ZON™

BEARINGS FOR YOUR FUTURE



Kunststofflager (POM) / Plastic Bearings



TÜVRheinland®
CERT
Certified ISO 2008
Certified
Management System
according to ISO 9001:2008



BEARINGS FOR YOUR FUTURE

Zen Ball Bearings are manufactured to the highest quality for standard and non-standard applications. Our technical department can modify any non-standard bearings to your specific requirements, regardless of quantity.

Apart from our extensive miniature ball bearing range of more than 1000 different types, ranging from 1-10 mm bore (Including inch dimensions), our range also includes Thin section, Three part thrust, Popular metric and any kind of non standard bearing. We are able to design bearings according to your requirements using new materials like ceramic or special steels for applications in Industry, Medicine, Chemistry and Food Processing.

Our technical department can modify any non-standard bearings to your specific requirements, even for small quantities.

For any items not listed in our catalogue, please contact our experienced sales team.



Kunststofflager (POM) Plastic Bearings



Wetterbeständig
Outdoor durability



Lösungsmittelresistent
Chemical solvent resistant



Zen Ball Bearings Shanghai has been awarded the German ISO TUV Rheinland certification for inspection of ZEN products.

This certification is the highest standard a business in our industry can achieve. It is internationally recognised as a guarantee of quality, customer focus and continual improvement.

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Plastic Analysis



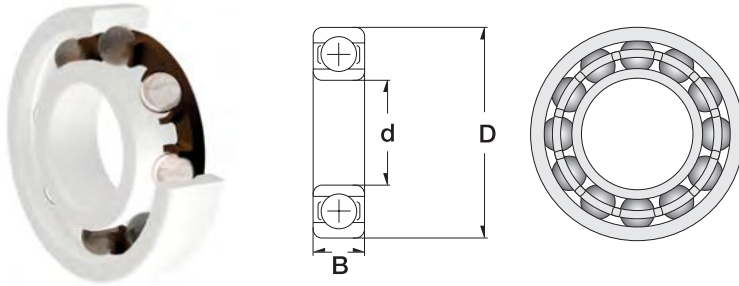
TESTED

The PBT material has been subject to the following stringent tests at our Zen Inspection centre in Shanghai

3

No.	Test	Test Method	Unit	Control Data	Test Data
1	Density	ASTM D792	g/cm ³	1.52±0.04	1.53
2	Shrinkage	ASTM D955	%	0.5±0.1-1.3±0.2	0.55-1.34
3	Water Absorption	ASTM D570	%	≤0.10	0.091
4	Tensile Strength	ASTM D638	Mpa	≥75	86
5	Flexural Strength (modulus)	ASTM D790	Mpa	≥110	144
6	Notched Impact Strength	ASTM D256	J/M	≥35	62
7	H.D.T	ASTM D648	°C	≥180	185.8
8	Glass Fiber Content	-	%	10±2	11.8
9	Flammability	UL94	-	HB	HB
10	Dielectric Strength	ASTM D149	Kv/mm	/	/
11	Volume Resistivity	ASTM D257	Ω-cm	/	/
12	Dielectric Constant	ASTM D150		/	/
13	Dielectric Factor	ASTM D150		/	/

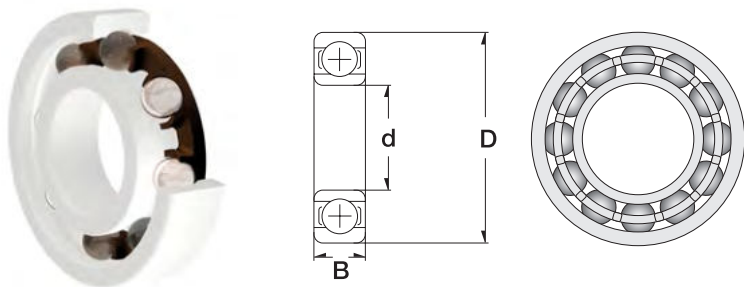
Kunststofflager (POM) / Plastic Bearings



4

Dimension (mm)						Designation/Type		Load Rating		Weight (g)
d	d Tolerance	D	D Tolerance	B	B Tolerance	Glass Balls	Stainless Steel Balls	C, dyn. N	C, stat. N	
8.0	0,+0.12	22.0	0,-0.12	7.0	0,-0.15	P608-GB	P608-SB	98.0	-	3 g
9.0	0,+0.12	24.0	0,-0.12	7.0	0,-0.15	P609-GB	P609-SB	107.8	-	3 g
10.0	0,+0.12	26.0	0,-0.12	8.0	0,-0.15	P6000-GB	P6000-SB	117.6	-	4 g
12.0	0,+0.12	28.0	0,-0.12	8.0	0,-0.15	P6001-GB	P6001-SB	117.6	-	4 g
15.0	0,+0.12	32.0	0,-0.12	9.0	0,-0.15	P6002-GB	P6002-SB	127.4	-	6 g
17.0	0,+0.12	35.0	0,-0.12	10.0	0,-0.15	P6003-GB	P6003-SB	127.4	-	8 g
20.0	0,+0.12	42.0	0,-0.12	12.0	0,-0.15	P6004-GB	P6004-SB	137.2	-	13 g
25.0	0,+0.12	47.0	0,-0.12	12.0	0,-0.15	P6005-GB	P6005-SB	147.0	-	15 g
30.0	0,+0.12	55.0	0,-0.12	13.0	0,-0.15	P6006-GB	P6006-SB	166.6	-	22 g
35.0	0,+0.12	62.0	0,-0.12	14.0	0,-0.15	P6007-GB	P6007-SB	176.4	-	29 g
40.0	0,+0.12	68.0	0,-0.12	15.0	0,-0.15	P6008-GB	P6008-SB	196.0	-	37 g
45.0	0,+0.12	75.0	0,-0.12	16.0	0,-0.15	P6009-GB	P6009-SB	215.6	-	46 g
50.0	0,+0.12	80.0	0,-0.12	16.0	0,-0.15	P6010-GB	P6010-SB	245.0	-	50 g
6.0	0,+0.12	19.0	0,-0.12	6.0	0,-0.15	P626-GB	P626-SB	78.4	-	2 g
7.0	0,+0.12	22.0	0,-0.12	7.0	0,-0.15	P627-GB	P627-SB	88.2	-	3 g
8.0	0,+0.12	24.0	0,-0.12	8.0	0,-0.15	P628-GB	P628-SB	98.0	-	4 g
9.0	0,+0.12	26.0	0,-0.12	8.0	0,-0.15	P629-GB	P629-SB	107.8	-	4 g
10.0	0,+0.12	30.0	0,-0.12	9.0	0,-0.15	P6200-GB	P6200-SB	117.6	-	6 g
12.0	0,+0.12	32.0	0,-0.12	10.0	0,-0.15	P6201-GB	P6201-SB	127.4	-	7 g
15.0	0,+0.12	35.0	0,-0.12	11.0	0,-0.15	P6202-GB	P6202-SB	147.0	-	9 g
17.0	0,+0.12	40.0	0,-0.12	12.0	0,-0.15	P6203-GB	P6203-SB	156.8	-	13 g
20.0	0,+0.12	47.0	0,-0.12	14.0	0,-0.15	P6204-GB	P6204-SB	166.6	-	21 g
25.0	0,+0.12	52.0	0,-0.12	15.0	0,-0.15	P6205-GB	P6205-SB	176.4	-	25 g
30.0	0,+0.12	62.0	0,-0.12	16.0	0,-0.15	P6206-GB	P6206-SB	196.0	-	38 g
35.0	0,+0.12	72.0	0,-0.12	17.0	0,-0.15	P6207-GB	P6207-SB	215.6	-	55 g

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5

Dimension (mm)						Designation/Type		Load Rating		Weight (g)
d	d Tolerance	D	D Tolerance	B	B Tolerance	Glass Balls	Stainless Steel Balls	C, dyn. N	C, stat. N	
40.0	0,+0.12	80.0	0,-0.12	18.0	0,-0.15	P6208-GB	P6208-SB	245.0	-	70 g
10.0	0,+0.12	35.0	0,-0.12	11.0	0,-0.15	P6300-GB	P6300-SB	137.2	-	10 g
12.0	0,+0.12	37.0	0,-0.12	12.0	0,-0.15	P6301-GB	P6301-SB	156.8	-	12 g
15.0	0,+0.12	42.0	0,-0.12	13.0	0,-0.15	P6302-GB	P6302-SB	176.4	-	16 g
17.0	0,+0.12	47.0	0,-0.12	14.0	0,-0.15	P6303-GB	P6303-SB	196.0	-	22 g
20.0	0,+0.12	52.0	0,-0.12	15.0	0,-0.15	P6304-GB	P6304-SB	225.4	-	28 g
25.0	0,+0.12	62.0	0,-0.12	17.0	0,-0.15	P6305-GB	P6305-SB	254.8	-	45 g
30.0	0,+0.12	72.0	0,-0.12	19.0	0,-0.15	P6306-GB	P6306-SB	274.4	-	66 g
35.0	0,+0.12	80.0	0,-0.12	21.0	0,-0.15	P6307-GB	P6307-SB	313.6	-	89 g
40.0	0,+0.12	90.0	0,-0.12	23.0	0,-0.15	P6308-GB	P6308-SB	343.0	-	120 g
8.0	0,+0.12	19.0	0,-0.12	6.0	0,-0.15	P698-GB	P698-SB	78.4	-	2 g
9.0	0,+0.12	20.0	0,-0.12	6.0	0,-0.15	P699-GB	P699-SB	78.4	-	2 g
10.0	0,+0.12	22.0	0,-0.12	6.0	0,-0.15	P6900-GB	P6900-SB	78.4	-	2 g
12.0	0,+0.12	24.0	0,-0.12	6.0	0,-0.15	P6901-GB	P6901-SB	88.2	-	2 g
15.0	0,+0.12	28.0	0,-0.12	7.0	0,-0.15	P6902-GB	P6902-SB	98.0	-	3 g
17.0	0,+0.12	30.0	0,-0.12	7.0	0,-0.15	P6903-GB	P6903-SB	107.8	-	4 g
20.0	0,+0.12	37.0	0,-0.12	9.0	0,-0.15	P6904-GB	P6904-SB	117.6	-	7 g
25.0	0,+0.12	42.0	0,-0.12	9.0	0,-0.15	P6905-GB	P6905-SB	137.2	-	10 g
30.0	0,+0.12	47.0	0,-0.12	9.0	0,-0.15	P6906-GB	P6906-SB	147.0	-	10 g
35.0	0,+0.12	55.0	0,-0.12	10.0	0,-0.15	P6907-GB	P6907-SB	166.6	-	14 g
40.0	0,+0.12	62.0	0,-0.12	12.0	0,-0.15	P6908-GB	P6908-SB	186.2	-	22 g

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v.10 / 18



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