



## 产品特性 Product features

CSB-PRB<sup>®</sup>系列塑料滚动轴承内外圈以及保持架均采用优质工程塑料制成，滚珠材料为不锈钢（选配）、玻璃、陶瓷等；PRB系列塑料滚动轴承具有良好的自润滑性能和耐腐蚀性能；突出的是比CSB-EPB<sup>®</sup>系列塑料滑动轴承具有其极高的运行速度，CSB-PRB<sup>®</sup>塑料轴承弥补了EPB塑料轴承不能在高速运动使用的场合。

CSB-PRB<sup>®</sup> series plastic rolling bearing is made of high quality engineering plastic. The balls are Stainless steel, Glass, Ceramics materials. This series of bearings are with perfect self-lubricating feature and anti-corrosion feature. Comparing with the normal CSB-EPB<sup>®</sup> series plastic bushings, the CSB-PRB<sup>®</sup> series plastic rolling bearings are suitable to be applied under high speed and therefore meet the high speed application that normal CSB-EPB is not workable.

### PRB10 塑料滚动轴承 Plastic ball bearings



PRB10作为通用性最强的塑料滚动轴承具有良好的强度和耐磨性。由于其材料自身的润滑性噪音较低；此类轴承碱性环境下表现良好但不适合在酸性环境下长期运行。标准配置内外圈材料为：改良POM，保持架材料为：改良PA，滚珠材料为：玻璃球或不锈钢（选配）；长期连续使用温度-40 ~ +80℃。

PRB10 has good strength and wear resistance as a generic plastic rolling bearings, the operation noise very low because the self-lubrication of the material; These bearings perform well in an alkaline environment but not for long-term operation in an acidic environment. The standard material of inner and outer ring: POM, cage material: PA, ball material: glass or stainless steel; The long-term operation temperature: -40 ~ +80℃.

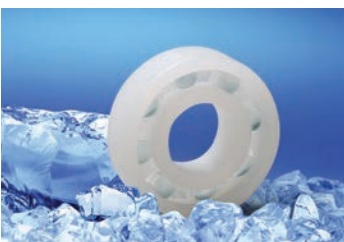
### PRB15 塑料滚动轴承 Plastic ball bearings



PRB15塑料滚动轴承材料具有极好的强度和耐磨性能。无论是在潮湿环境还是水下均保持良好的尺寸稳定性；对有机溶剂以及过氧化氢等具有良好的抗性；标准配置内外圈材料为：改良PETR，保持架材料为：改良PA，滚珠材料为：玻璃或不锈钢（选配）；长期使用温度：-50~+120℃。

PRB15 Plastic Roller Bearings are with excellent strength and wear resistance. The dimensions of the bearings are remaining stable either in the humidity environment or in the water. It has good chemical resistance against the organic solvents or Hydrogen peroxide. The standard material of the inner and outer ring is PETR, the ball cage is PA, and the balls are glass or stainless steel. The working temperature range is -50 ~ +120℃.

### PRB20 塑料滚动轴承 Plastic ball bearings



PRB20塑料滚动轴承具有低摩擦以及低温应用特性；此类轴承适合在酸碱交替环境下长期运行。标准配置内外圈材料为：改良UPE，保持架材料为：改良UPE，滚珠材料为：玻璃球或不锈钢（选配）；长期连续使用温度-150 ~ +80℃。

PRB20 series of plastic rolling bearing with low friction and low working temperature properties; these bearings are suitable for long-term operation in the acid-base alternate environment. The standard material of inner and outer ring: UPE, cage material: UPE, ball material: glass or stainless steel; The long-term operation temperature: -150 ~ +80℃.

### PRB25 塑料滚动轴承 Plastic ball bearings



PRB25塑料滚动轴承材料是经过摩擦优化的耐磨材料，具有较低的摩擦系数；耐疲劳性较好；允许在高速下运转。耐碱、弱酸以及洗涤剂的腐蚀；标准配置内外圈材料为：改良PA，保持架材料为：改良PA，滚珠材料为：玻璃或不锈钢（选配）；长期使用温度：-40~+100℃。

PRB25 Plastic roller bearings material is friction optimized wear resistance material with low friction and good fatigue resistance. It is suitable for the high speed operation. The material is alkali, acid and detergent resistance. The standard material of inner and outer ring is PA, ball cage is PA and the balls are glass or stainless steel. The working temperature range is -40~+100℃.

### PRB30 塑料滚动轴承 Plastic ball bearings



PRB30系列塑料滚动轴承具有极好的机械强度和耐磨性能，此产品能在150度的高温下正常使用，并具有极好的抗腐蚀性几乎能在所有的腐蚀环境下运行；标准配置内外圈材料为：改良PEEK，保持架材料为：改良PEEK，滚珠材料为：陶瓷；长期连续使用温度-100~+150℃。

PRB30 series of plastic rolling bearing has excellent mechanical strength and wear resistance, Max. operation temperature 250℃, these bearings has excellent corrosion resistance to almost all corrosive environment; The standard material of inner and outer ring: PEEK, cage material: PEEK, ball material: Ceramics; The long-term operation temperature: -100 ~ +150℃.

### PRB40 陶瓷滚动轴承 Ceramic ball bearings



PRB40系列塑料滚动轴承具有耐高低温、高承载以及最好的抗腐蚀性能；可应用在强酸、强碱、无机、有机盐、海水等领域。标准配置内外圈材料为：陶瓷，保持架材料为：改良PTFE或改良PEEK，滚珠材料为：陶瓷；长期连续使用温度-200~+250℃。

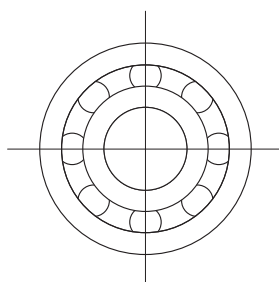
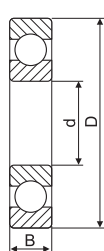
PRB40 series of plastic rolling bearing can work under very high temperature and very low temperature. These bearings with high load and the best corrosion resistance; these bearings are good working under acid, alkaline, organic and inorganic salt as well as in sea water environments; The standard material of inner and outer ring: Ceramics, cage material: PTFE or PEEK, ball material: Ceramics; The long-term operation temperature: -200 ~ +250℃.

### PRTB10 轴向推力轴承 Plastic thrust bearings



PRTB10作为通用性最强的塑料滚动轴承材料具有良好的强度和耐磨性，由于其材料自身的润滑性噪音较低；此类轴承碱性环境下表现良好但不适合在酸性环境下长期运行。标准配置内外圈材料为：改良POM，滚珠材料为：玻璃球或不锈钢（选配）；长期连续使用温度-40~+80℃。

PRTB10 has good strength and wear resistance as a generic plastic rolling bearings, the operation noise very low because the self-lubrication of the material; These bearings perform well in an alkaline environment but not for long-term operation in an acidic environment. The standard material of inner and outer ring: POM, ball material: glass or stainless steel; The long-term operation temperature: -40 ~ +80℃.

**PRB 滚动轴承尺寸规格表 Plastic ball bearings specifications**


产品编码 Part No.:

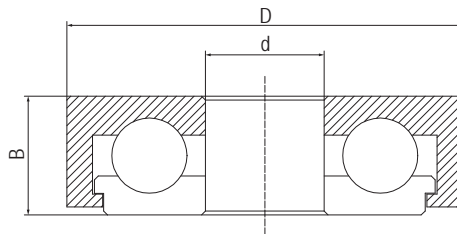
PRB10-6012

 产品规格 Specification  
 轴承材料标准配置  
 Standard material:  
 PRB10, PRB15, PRB20,  
 PRB25, PRB30, PRB40

产品编码 Part No.	d [mm]	D [mm]	B [mm]	极限静载荷 Max. static load [N]	极限动载荷 Max. dynamic load [N]	极限转速 Max. speed RPM
PRB10-623	3	10	4	25	40	4050
PRB10-624	4	13	5	35	50	3240
PRB10-625	5	16	5	40	55	2745
PRB10-626	6	19	6	40	60	2340
PRB10-607	7	19	6	35	50	2340
PRB10-627	7	22	7	45	65	1980
PRB10-608	8	22	7	45	65	1980
PRB10-609	9	24	7	50	75	1845
PRB10-629	9	26	8	60	85	1710
PRB10-6000	10	26	8	75	110	1710
PRB10-6200	10	30	9	110	140	1485
PRB10-6300	10	35	11	160	235	1260
PRB10-6001	12	28	8	90	135	1575
PRB10-6201	12	32	10	125	180	1395
PRB10-6301	12	37	12	175	260	1170
PRB10-6002	15	32	9	110	160	1395
PRB10-6202	15	35	11	140	210	1260
PRB10-6302	15	42	13	215	310	1080
PRB10-16002	15	32	8	110	160	1350
PRB10-6003	17	35	10	140	200	1260
PRB10-6203	17	40	12	180	265	1125
PRB10-6303	17	47	14	250	375	945
PRB10-16003	17	35	8	135	200	1260
PRB10-6004	20	42	12	165	250	1080
PRB10-6204	20	47	14	225	350	945
PRB10-6304	20	52	15	290	440	855
PRB10-16004	20	42	8	160	240	1035
PRB10-6005	25	47	12	200	300	945
PRB10-6205	25	52	15	265	400	855
PRB10-6305	25	62	17	330	500	655
PRB10-16005	25	47	8	175	260	945
PRB10-6006	30	55	13	235	350	810
PRB10-6206	30	62	16	300	450	720
PRB10-6306	30	72	19	380	580	610
PRB10-16006	30	55	9	200	310	810
PRB10-6007	35	62	14	265	400	720
PRB10-6207	35	72	17	340	515	630
PRB10-6307	35	80	21	405	625	540
PRB10-16007	35	62	9	240	350	720

产品编码 Part No.	d [mm]	D [mm]	B [mm]	极限静载荷 Max. static load [N]	极限动载荷 Max. dynamic load [N]	极限转速 Max. speed RPM
PRB10-6008	40	68	15	290	430	675
PRB10-6208	40	80	18	365	550	560
PRB10-6308	40	90	23	455	690	468
PRB10-16008	40	68	9	250	375	675
PRB10-6009	45	75	16	315	465	585
PRB10-6209	45	85	19	390	600	522
PRB10-6309	45	100	25	450	750	450
PRB10-16009	45	75	10	275	415	585
PRB10-6010	50	80	16	325	480	540
PRB10-6210	50	90	20	450	640	495
PRB10-6011	55	90	18	335	500	495
PRB10-6211	55	100	21	500	665	450
PRB10-6012	60	95	18	350	530	450
PRB10-6212	60	110	22	525	730	405
PRB10-6013	65	100	18	365	555	430
PRB10-6014	70	110	20	380	590	405

### PRTB10 塑料滚动推力轴承 Plastic ball thrust bearings



产品编码 Part No.:

PRTB10-51100

产品规格 Specification

轴承材料标准配置  
Standard material: POM

产品编码 Part No.	d [mm]	D [mm]	B [mm]	重量 weight [kg]
PRTB10-51100	10	24	9	0.004
PRTB10-51200	10	26	11	0.005
PRTB10-51101	12	26	9	0.004
PRTB10-51201	12	28	11	0.006
PRTB10-51102	15	28	9	0.004
PRTB10-51202	15	32	12	0.008
PRTB10-51103	17	30	9	0.004
PRTB10-51203	17	35	12	0.009
PRTB10-51104	20	35	10	0.007
PRTB10-51204	20	40	14	0.014
PRTB10-51105	25	42	11	0.010

产品编码 Part No.	d [mm]	D [mm]	B [mm]	重量 weight [kg]
PRTB10-51205	25	47	15	0.020
PRTB10-51106	30	47	11	0.011
PRTB10-51206	30	52	16	0.026
PRTB10-51107	35	52	12	0.014
PRTB10-51207	35	62	18	0.037
PRTB10-51108	40	60	13	0.021
PRTB10-51208	40	68	19	0.049
PRTB10-51109	45	65	14	0.026
PRTB10-51209	45	73	20	0.056
PRTB10-51110	50	70	14	0.028
PRTB10-51210	50	78	22	0.068