

























CSB-EPB™ Plastic Plain Bearings

CSB-EPB™ 工程塑料轴承

基本功能 Basic Function

通用型 Normal Type	 CSB-EPB 通用性最强 The most common material P 28-30	 CSB-EPB1 特别适合用于卡车尾箱铰链 Especially suitable for truck hinges P 34-36	 CSB-EPB3 增强型 高承载 Enhanced type P 43-45
高载型 High load	 CSB-EPB12 特别适合高载下摇摆运动 Especially suitable for oscillation P 85-87	 CSB-EPB22 极高载耐磨材料 Good wear resistance under extremely high load P 121-123	 CSB-EPB5 耐高温 抗化学性极佳 High temperature Excellent chemical resistance P 55-57
耐高温 High temperature	 CSB-EPB4 耐温200℃ Work consecutively at 200℃ P 52-54	 CSB-EPB24 耐温200℃ 适用于燃油系统 Temperature up to 200℃ For use in fuel oil P 127-129	 CSB-EPB5 耐温250℃ 高化学抗性 Work consecutively at 250℃, Good chemical resistance P 55-57
低摩擦系数 Low friction coefficient	 CSB-EPB13 快慢速下保持较低的摩擦系数 Maintain low friction coefficient either at high or low speed P 88-90	 CSB-EPB7 适合高速运动 高耐磨性 Suitable for high speed High wear resistance P 70-72	 CSB-EPB11 不含PTFE和硅, 轻载 耐磨性极好, 高抗冲击性, 适合软轴 Not PTFE and Silicon. Good wear resistance for low load. Suitable for soft shaft P 82-84
耐腐蚀 Anti-corrosion	 CSB-EPB4 耐温200℃ Work consecutively at 200℃ P 52-54	 CSB-EPB5 耐温250℃ 耐腐蚀最强 Work consecutively at 250℃ Highest corrosion resistance P 55-57	 CSB-EPB8 耐温200℃ 水下运行专用 Work consecutively at 200℃, Specialized underwater operation P 73-75
潮湿环境 Humid environment	 CSB-EPB2 高性价比 High performance-cost ratio P 37-39	 CSB-EPB4 高强度, 耐化学腐蚀 High strength Good chemical resistance P 52-54	 CSB-EPB8 适合水下运行 Underwater operation P 73-75
食品安全等级FDA grade	 CSB-EPB5A 耐温250℃ FDA食品等级认可 High temperature 250℃ FDA grade P 58-60	 CSB-EPB6 适合软轴 允许接触食品 Soft shaft available Food-classic P 64-66	 CSB-EPB6A 用于食品或烟草行业, 适合低速运动 For the food and tobacco industry, Low speed P 67-69
经济型 Economic	 CSB-EPBH 经济通用 General Type P 31-33	 CSB-EPB2 适合潮湿环境 Good for Humidity condition P 37-39	 CSB-EPB2D 低摩擦系数, 最经济 Low Friction coefficient Low cost P 40-42

EPB

CSB-EPB™

www.csb-ep.com
sales@csb-ep.com

Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

 <p>CSB-EPB7 高耐磨性, 电梯行业应用, 适合软轴 High wear resistance, Used in lift industry, Suitable for soft shaft P 70-72</p>	 <p>CSB-EPB13 适合快慢速、适合软轴 Suitable for high and low speed with soft shaft P 88-90</p>	 <p>CSB-EPB15 高耐磨 长寿命 High wear resistance Long service life P 97-99</p>	 <p>CSB-EPB18 低吸水性, 高耐磨 Low water absorption, Good wear resistance P 109-111</p>
 <p>CSB-EPB5Z 特别适合摇摆运动 Especially suitable for oscillation P 61-63</p>	 <p>CSB-EPB10 耐高温, 高强度 抗化学性极好 High temperature Excellent chemical resistance P 79-81</p>		
 <p>CSB-EPB10 耐温250℃, 高强度 Work consecutively at 250℃ High strength P 79-81</p>	 <p>CSB-EPB14 耐高低温、低摩擦系数、适合液体中运行 High and low temp. Low friction Application in liquid P 91-93</p>	 <p>CSB-EPB14A 高速、低摩擦系数 FDA食品等级认可 High speed and low friction; FDA P 94-96</p>	 <p>CSB-EPB17 特殊高速高温材料 High speed and high temperature special material P 103-105</p>
 <p>CSB-EPB18 低吸水性, 高耐磨 Low water absorption, Good wear resistance P 109-111</p>	 <p>CSB-EPB14 耐高低温、低摩擦系数、适合液体中运行 High and low temp. Low friction Application in liquid P 91-93</p>	 <p>CSB-EPB14A 高速、低摩擦系数 FDA食品等级认可 High speed and low friction; FDA P 94-96</p>	
 <p>CSB-EPB10 耐温250℃ 高抗压强度 Work consecutively at 250℃, High compressive strength P 79-81</p>	 <p>CSB-EPB14 耐高低温、低摩擦系数、适合液体中运行 High and low temp. Low friction Application in liquid P 91-93</p>	 <p>CSB-EPB26 适合高温和软轴应用 For soft shafts and high temperatures P 133-135</p>	
 <p>CSB-EPB14 耐高低温、低摩擦系数、适合液体中运行 High and low temp. Low friction Application in liquid P 91-93</p>	 <p>CSB-EPB16 适合高载荷 Suitable for high load P 100-102</p>	 <p>CSB-EPB20 水下的自润滑材料 A self-lubricating material for applications in water P 115-117</p>	 <p>CSB-EPB21 高温耐磨材料 Good wear resistance for high temperature P 118-120</p>
 <p>CSB-EPB11 不含PTFE和硅, 轻载耐磨性极好, 高抗冲击性, 适合软轴 Not PTFE and Silicon. Good wear resistance for low load. Suitable for soft shaft P 82-84</p>	 <p>CSB-EPB14A 高速、低摩擦系数 FDA食品等级认可 High speed and low friction; FDA P 94-96</p>	 <p>CSB-EPB23 高温180℃食品行业应用 For use with temperatures up to 180℃ P 124-126</p>	
 <p>CSB-EPB3G 高强度 High strength P 46-48</p>	 <p>CSB-EPB3M 边缘载荷, 耐冲压, 适合低速运动 Marginal Load, Impact resistance, Low speed P 49-51</p>		

CSB-EPB™ Standard Material Technical Data

CSB-EPB™ 标准材料性能数据表

材料性能 Material Properties	试验方法 Testing Method	单位 Unit	EPB	EPB1	EPB2	EPB3	EPB4	EPB5
密度 Density	ISO1183	g/cm ³	1.46	1.51	1.29	1.46	1.70	1.44
颜色 Color			深灰 Dark Grey	红棕 Red Brown	橄榄绿 Olive	深灰 Dark Grey	黑色 Black	黑色 Black
对钢的动摩擦系数 Dynamic friction /steel(dry)			0.05-0.15	0.08-0.20	0.07-0.20	0.08-0.18	0.07-0.20	0.09-0.25
最大P.V值 Max. PV (dry)		N/mm ² × m/s	0.4	0.6	0.5	0.5	1.4	1.5
最大旋转速度值 Max. rotating velocity		m/s	1.0	1.0	1.0	1.0	1.0	1.5
最大摇摆速度值 Max. oscillating velocity		m/s	0.7	0.7	0.7	0.7	0.7	1.1
最大直线速度值 Max. linear velocity		m/s	3.0	3.0	3.0	4.0	3.0	5.0
抗拉强度 Tensile strength	ISO527	MPa	80	80	80	200	180	170
抗压强度(轴向) Compressive strength(Axial)		MPa	65	75	70	80	80	100
弹性模量 E-module	ISO527	MPa	2300	2500	2400	7700	12000	7900
允许最大表面静压力 Max. static pressure of the surface, 20 °C		MPa	35	70	60	80	90	150
邵氏硬度 Shore hardness	ISO 868	D	75	77	75	81	87	85
连续工作温度 Continuous work temperature		°C	-40/+80	-50/+110	-50/+100	-40/+130	-40/+200	-100/+250
短时运行温度 Short-time work temperature		°C	-40/+120	-50/+170	-50/+150	-40/+220	-40/+260	-100/+315
导热性 Thermal conductivity	ASTME1461	W / m × k	0.2	0.3	0.25	0.25	0.6	0.6
线性热膨胀系数 Linear coef. of thermal expansion	ASTMD696	K ⁻¹ × 10 ⁻⁵	10	8	10	9	4	5
RH50/23 °C 时的吸湿性 Moisture absorption RH50/23 °C	ASTMD570	%	0.2	0.2	0.2	0.7	0.1	0.1
最大吸水率23 °C Max. water absorption, 23 °C		%	1.2	0.5	0.4	4.0	0.3	0.5
燃烧性能 Flammability	UL94		HB	HB	HB	HB	HB	V0
体电阻率 Volume resistivity	IEC60093	Ω cm	>10 ¹²	>10 ¹⁴	>10 ¹⁴	>10 ¹³	>10 ⁴	>10 ⁸
面电阻率 Surface resistivity	IEC60093	Ω	>10 ¹⁵	>10 ¹⁵	>10 ¹⁵	>10 ¹¹	>10 ⁵	>10 ⁷
页码 Page			P 28-30	P 34-36	P 37-39	P 43-45	P 52-54	P 55-57

EPB

CSB-EPB™

www.csb-ep.com
sales@csb-ep.com

Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

	EPB6	EPB7	EPB10	EPB12	EPB13	EPB15	EPB16	EPB18	EPB19	EPB21	EPB22	EPB25
	1.45	1.25	1.40	1.40	1.48	1.35	1.58	1.45	1.32	1.53	1.46	1.44
	白色 White	米黄色 Cream	黑色 Black	黑色 Black	黄色 Yellow	黄色 Yellow	黑色 Black	黄色 Yellow	深灰 Dark Grey	浅黄色 Buff	深黄色 Dark Yellow	黄色 Yellow
	0.05-0.18	0.09-0.20	0.10-0.25	0.05-0.20	0.05-0.15	0.05-0.15	0.06-0.20	0.05-0.18	0.05-0.20	0.05-0.20	0.15-0.35	0.08-0.20
	0.3	0.5	1.8	0.6	0.4	0.9	0.4	0.4	0.7	0.80	0.70	0.45
	1.0	1.0	1.5	1.0	1.5	1.5	1.0	1.2	1.2	2.00	1.00	1.30
	0.7	0.7	1.1	0.7	1.1	1.1	0.7	0.8	0.8	1.00	0.70	1.00
	3.0	4.0	5.0	5.0	8.0	8.0	3.0	3.0	4.0	5.00	4.00	4.00
	75	120	240	115	75	130	120	90	100	55	240	55
	65	60	105	95	60	70	65	70	60	78	130	60
	2300	3500	12000	4300	2400	4000	5300	2500	3500	2800	9000	2200
	30	60	160	100	35	70	50	50	60	80	120	60
	74	77	86	83	74	77	76	75	77	77	80	80
	-40/+80	-40/+100	-100/+260	-40/+130	-50/+90	-40/+100	-40/+130	-50/+110	-40/+150	-40/+200	-40/+150	-100/+180
	-40/+120	-40/+180	-100/+315	-40/+170	-50/+120	-40/+180	-40/+200	-50/+170	-40/+200	-40/+240	-40/+220	-100/+210
	0.2	0.2	0.7	0.25	0.25	0.25	0.25	0.3	0.25	0.5	0.24	0.24
	10	9	2	5	9	7	4	8	5	5	8	7
	0.2	1.3	0.1	0.9	0.2	1.3	0.2	0.2	1.3	0.1	1.1	0.3
	1.1	6.5	0.5	4.9	1.2	6.5	0.4	0.5	2.5	0.3	4.6	1.6
	HB	HB	V0	HB	HB	HB	HB	HB	HB	V0	HB	V0
	>10 ¹²	>10 ¹²	>10 ⁵	>10 ¹⁵	>10 ¹³	>10 ¹⁵	>10 ¹³	>10 ¹⁵	>10 ¹⁵	>10 ¹²	>10 ¹³	>10 ¹³
	>10 ¹⁵	>10 ¹²	>10 ⁵	>10 ¹²	>10 ¹²	>10 ¹²	>10 ¹²	>10 ¹⁵	>10 ¹²	>10 ¹¹	>10 ¹¹	>10 ¹⁰
	P 64-66	P 70-72	P 79-81	P 85-87	P 88-90	P 97-99	P 100-102	P 109-111	P 112-114	P 118-120	P 121-123	P 130-132