

塑料轴承系列产品

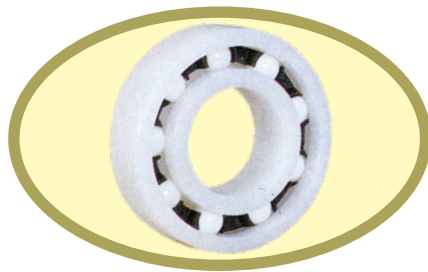
Plastic bearings range introduction

耐酸碱塑料轴承(塑料轴承HDPE/PE-UHMW/PP) / Anti-Acid and Anti-Alkali bearings

▶ HDPE (聚乙烯) 具有良好的化学稳定性, 可以抵抗大部份酸、碱、有机溶液以及热水的侵蚀。它电气绝缘性好, 易焊接。HDPE的工作温度为 $-50^{\circ}\text{C} \sim +90^{\circ}\text{C}$ 。

▶ HDPE (High Density Polyethylene)

There two Polyolefins offer resistance to almost all acids and bases, detergents and hot water. PE has good insulation properties and is easy to weld. The operating temperature of HDPE is from -50 to $+90$.



优点:

- 密度低
- 韧性好 (也适用于低温条件)
- 拉伸性好
- 电气和介电绝缘性好
- 吸水率低
- 水汽渗透低
- 化学稳定性好
- 抗张裂
- 无毒无害

缺点:

- 表面偏软 (低刚度)
- 不可高频焊接
- 粘度和油漆性差
- 易受天气影响

Advantages:

- light weight
- high toughness (also at low temperature)
- high elongation
- very good electrical and dielectric properties
- very low water absorption
- low steam permeability
- high chemical resistance
- good protection against stress cracking
- food safe

Disadvantages:

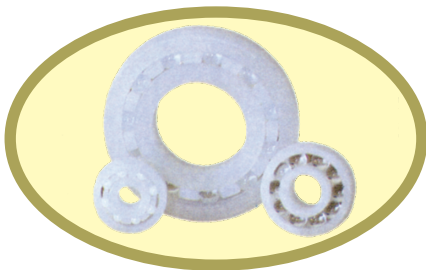
- soft surface (low tensile strength)
- HF welding not recommended
- difficult to varnish and glue
- not weather resistant

轴承零件 Parts	常用材料 Materials
内外圈 Rings	HDPE
球 Balls	Glass, ZrO_2 , Si_3N_4 , PP
保持架 Cage	HDPE

PE-UHMW(超高分子量聚乙烯) / PE-UHMW

▶ 比HDPE具有优异滑动特性。

▶ It has much better properties of sliding than HDPE.



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