

CRP Bearings



■ Material structure

Sliding layer: Fibers and PTFE compound tape as internally lubricating layer.

Backing: Continuous wound glass fiber encapsulated in epoxy resin.

Technical data

Material properties	Standard	Unit	CRP
Density	ISO1183	g/cm ³	1.90
Max. water absorption	ISO62	%	0.1
Max. PV (dry)	ITS026	N/mm ² ×m/s	1.0
Coefficient of friction	ITS025	μ	0.03~0.12
Long-term application temperature	ITS029	°C	+160
Short-term application temperature	ITS029	°C	+180
Lowest application temperature	ITS029	°C	-196
Max. Speed	ITS032	m/s	0.50
Compressive strength	ITS033	MPa	420
Max. static load	ITS027	MPa	240
Max. dynamic load	ITS028	MPa	30
Linear coef. of thermal Expansion (25 ~ 150°C)	ISO11359	10 ⁻⁶ ×K ⁻¹	13

*ITS: CSB company's internal test standards.

**Test temperatures are 23°C unless otherwise stated.

Typical features

Low friction coefficient
 High motion speed
 Suitable for linear motion
 Internal bore can be precision-finished
 Oil allowed

Typical applications

Ball and butterfly trunnion bearing
 Air pump guide bushes
 Tie-bar guide bearing
 Hydraulic pressure machinery