

CRH Bearings



■ Material structure

Sliding layer: Continuous wound PTFE and high-strength fibers encapsulated in an internally lubricated, high temperature and high-strength filled epoxy resin.

Backing: Continuous wound glass fiber encapsulated in a high temperature epoxy resin.

Technical data

Material properties	Standard	Unit	CRH
Density	ISO1183	g/cm ³	1.90
Max. water absorption	ISO62	%	0.1
Max. PV (dry)	ITS026	N/mm ² ×m/s	1.5
Coefficient of friction	ITS025	μ	0.03~0.12
Long-term application temperature	ITS029	°C	+200
Short-term application temperature	ITS029	°C	+260
Lowest application temperature	ITS029	°C	-196
Max. Speed	ITS032	m/s	0.13
Compressive strength	ITS033	MPa	620
Max. static load	ITS027	MPa	420
Max. dynamic load	ITS028	MPa	160
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

Extreme load applications in oscillation and rotation
 High temperature applications
 Extremely Wear resistance
 Strong corrosion resistance
 Oil forbidden



Typical applications

Hydraulic cylinder pivots
 Boom lifts
 Cranes equipment
 Construction machinery arm bushes
 Port machinery