COM-KU®/D sliding bearing

Types	KDZ Cylindrical bushing	KDB Flanged bushing	KDA Thrust washer	KDS Strips

TECHNICAL DATA

Description	Fibre reinforced plastic composite sliding bearing, heavy duty. Maintenance-free
Properties	Good sliding properties, suitable for high load capacity (as well as impact load and edge pressing), very good at low sliding speeds, good chemical resistance, long length of life, suitable for reparation of lubricated bushings, good damping features. Maintenance-free
Material *	Fibre reinforced plastic compound

MATERIAL PROPERTIES **

Version		D400	D401	D402	D403	D406
Compressive Strength	[N/mm²]	350	325	350	350	300
Shear Strength	[N/mm²]	100	95	105	105	95
Compressive Mod. of Elasticity	[N/mm²]	1700	2000	1600	1600	1600
Density	(10^3 kg/m³)	1,35	1,25	1,35	1,35	1,35
Friction Value	[µ]	0,04 - 0,10	0,05 - 0,12	0,04 - 0,10	0,05 - 0,10	0,04 - 0,08
Temperature	[C°]	-200 till +150	-200 till +130	-200 till +150	-200 till +150	-200 till +150
Advised Working Temp.	[C°]	80	80	100	100	100
Water Absorbtion	(% 20° C in 24h)	0,15	0,15	0,3	0,3	0,3
Colour		Grey	Blue	Yellow	Red	Yellow / Grey

TOLERANCE DETAILS

Housing	H7
Bushing inner - Ø after mounting	Depends on diameter. Please note, that fitting dimensions and tolerances have to be “plastic-tailored” considering the larger expansion coefficient compared to metal sliding bearings. As a result larger tolerances ranges and clearance fits can occur.
Shaft tolerance	Depends on application
Shaft material	Steel >200HB dressed to size, surface roughness < R_z 4

MOUNTING ADVISE

Housing	Mounting bevel, min. 1,5 mm x 15-45°
Shaft	Mounting bevel, 5 mm x 15°, edges rounded
Force fitting mandrel	The application of an adequate force fitting mandrel is advisable.
Maintenance	No maintenance necessary. COM-KU®/D is a self lubricating and maintenance-free plastic sliding bearing.

Cylindrical and flanged bushings are standard fabrication. All special designs are available at short notice!

* On request further materials are available for higher demands, e.g. for higher temperature ranges.

** The above stated material properties are valid for optimal operating conditions. Through changes of the application conditions e.g. higher sliding speed or strain, these values are subject to change.