

PCM 707550 EPTFE composite

straight bushing

PTFE composite straight bushing



SKF PTFE composite straight (cylindrical) bushings are suitable for oscillating, rotating and linear movements, and can accommodate radial loads. Despite their thin-walled design, they can accommodate heavy loads. They also provide good heat dissipation, therefore enabling relatively high sliding velocities.

- Maintenance-free operation
- Cost-effective with long service life
- High operating temperatures
- High load carrying capacity
- High sliding velocity and small operating clearance

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	75 mm
Width	50 mm

Performance

Basic dynamic load rating	275 kN
Basic static load rating	865 kN

Properties

Design	Straight
Material	PTFE composite
Relubrication feature	Without

Technical Specification

Material	PTFE composite
Operating temperature	min. -200 °C
Operating temperature	max. 250 °C

Dimensions

d	70 mm	Bore diameter
D	75 mm	Outside diameter
B	50 mm	Width
c ₁	min. 0.2 mm	Length chamfer bore - axial direction
c ₁	max. 1 mm	Length chamfer bore - axial direction
c ₂	min. 0.8 mm	Length chamfer outside diameter - axial direction
c ₂	max. 1.6 mm	Length chamfer outside diameter - axial direction



Recommended fits

Tolerance shaft	f7
Tolerance housing	H7

Calculation data

Basic dynamic load rating, radial direction	C	275 kN
Basic static load rating, radial direction	C_0	865 kN
Specific dynamic load factor	K	80 N/mm ²
Specific static load factor	K_0	250 N/mm ²
Factor depending on material and bearing type	K_M	480
Permissible sliding velocity	v	max. 2 m/s
Coefficient of friction	μ	min. 0.03
Coefficient of friction	μ	max. 0.25

Mass

Mass bushing	0.21 kg
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