

# PCM 455050 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	45 mm
Outside diameter	50 mm
Width	50 mm

### Performance

Basic dynamic load rating	176 kN
Basic static load rating	550 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	45 mm	Bore diameter
D	50 mm	Outside diameter
B	50 mm	Width
c <sub>1</sub>	min. 0.2 mm	Length chamfer bore - axial direction
c <sub>1</sub>	max. 1 mm	Length chamfer bore - axial direction
c <sub>2</sub>	min. 0.8 mm	Length chamfer outside diameter - axial direction
c <sub>2</sub>	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	176 kN
Basic static load rating, radial direction	C <sub>0</sub>	550 kN
Specific dynamic load factor	K	80 N/mm <sup>2</sup>
Specific static load factor	K <sub>0</sub>	250 N/mm <sup>2</sup>
Factor depending on material and bearing type	K <sub>M</sub>	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	0.14 kg
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