

PCM 505540 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	50 mm
Outside diameter	55 mm
Width	40 mm

Performance

Basic dynamic load rating	156 kN
Basic static load rating	490 kN

Properties

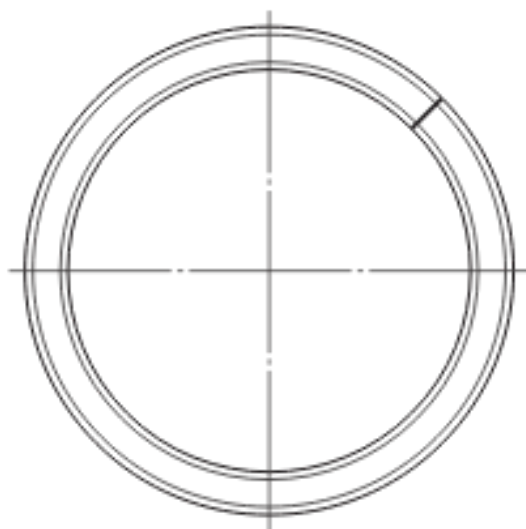
Design	Straight
Material	PTFE composite
Relubrication feature	Without

Technical Specification

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

Dimensions

d	50 mm	Bore diameter
D	55 mm	Outside diameter
B	40 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	156 kN
Basic static load rating, radial direction	C ₀	490 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	0.13 kg
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