

# PCM 455030 MPOM composite

## straight bushing

### POM composite straight bushing



SKF POM composite straight (cylindrical) bushings are suitable for oscillating, rotating and linear movements, and can accommodate radial loads. After initial grease fill, they are optimized for minimal maintenance under tough operating conditions. Pockets in the sliding surface serve as grease reservoirs. Relubrication can extend bearing service life considerably. Despite their compact design, they can accommodate heavy loads.

- Cost-effective with long service life
- Very good frictional properties
- High load carrying capacity
- High sliding velocity

## Overview

### Dimensions

Bore diameter	45 mm
Outside diameter	50 mm
Width	30 mm

## Performance

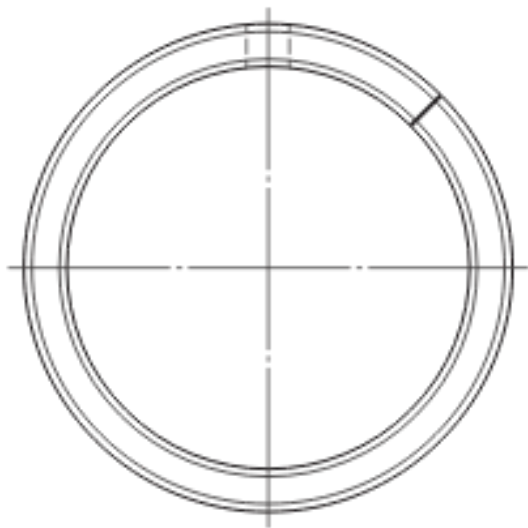
Basic dynamic load rating	156 kN
Basic static load rating	325 kN

## Properties

Design	Straight
Material	POM composite
Relubrication feature	With

# Technical Specification

Material	POM composite
Operating temperature	min. -40 °C
Operating temperature	max. 110 °C



## Dimensions

d	45 mm	Bore diameter
D	50 mm	Outside diameter
B	30 mm	Width
M	5 mm	Diameter lubrication hole
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	h8
Tolerance housing	H7

## Calculation data

Basic dynamic load rating, radial direction	C	156 kN
Basic static load rating, radial direction	$C_0$	325 kN
Specific dynamic load factor	K	120 N/mm <sup>2</sup>
Specific static load factor	$K_0$	250 N/mm <sup>2</sup>
Factor depending on material and bearing type	$K_M$	1 900
Permissible sliding velocity	v	max. 2.5 m/s
Coefficient of friction	$\mu$	min. 0.02
Coefficient of friction	$\mu$	max. 0.2

## Mass

Mass bushing	0.078 kg
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