

# PCM 161812 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    | 16 mm |
| Outside diameter | 18 mm |
| Width            | 12 mm |

### Performance

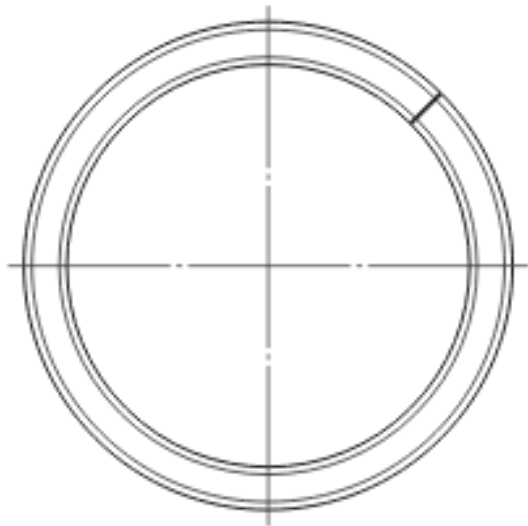
|                           |         |
|---------------------------|---------|
| Basic dynamic load rating | 15.3 kN |
| Basic static load rating  | 48 kN   |

### 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              | 16 mm       | Bore diameter                                     |
| D              | 18 mm       | Outside diameter                                  |
| B              | 12 mm       | Width   |
| c <sub>1</sub> | min. 0.1 mm | Length chamfer bore - axial direction             |
| c <sub>1</sub> | max. 0.6 mm | Length chamfer bore - axial direction             |
| c <sub>2</sub> | min. 0.2 mm | Length chamfer outside diameter - axial direction |
| c <sub>2</sub> | max. 1 mm   | Length chamfer outside diameter - axial direction |

## Recommended fits

|                   |    |
|-------------------|----|
| Tolerance shaft   | f7 |
| Tolerance housing | H7 |

## Calculation data

|   |       |                       |
|---|-------|-----------------------|
| Basic dynamic load rating, radial direction   | C     | 15.3 kN               |
| Basic static load rating, radial direction    | $C_0$ | 48 kN                 |
| Specific dynamic load factor                  | K     | 80 N/mm <sup>2</sup>  |
| Specific static load factor                   | $K_0$ | 250 N/mm <sup>2</sup> |
| Factor depending on material and bearing type | $K_M$ | 480                   |
| Permissible sliding velocity                  | v     | max. 2 m/s            |
| Coefficient of friction                       | $\mu$ | min. 0.03             |
| Coefficient of friction                       | $\mu$ | max. 0.25             |

## Mass

|              |           |
|--------------|-----------|
| Mass bushing | 0.0047 kg |
|--------------|-----------|

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