

PCM 303420 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 | 30 mm |
| Outside diameter | 34 mm |
| Width | 20 mm |

Performance

| | |
|---------------------------|---------|
| Basic dynamic load rating | 46.5 kN |
| Basic static load rating | 143 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 | 30 mm | Bore diameter |
| D | 34 mm | Outside diameter |
| B | 20 mm | Width |
| c ₁ | min. 0.1 mm | Length chamfer bore - axial direction |
| c ₁ | max. 0.7 mm | Length chamfer bore - axial direction |
| c ₂ | min. 0.6 mm | Length chamfer outside diameter - axial direction |
| c ₂ | max. 1.4 mm | Length chamfer outside diameter - axial direction |



Recommended fits

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

Calculation data

| | | |
|---|----------------|-----------------------|
| Basic dynamic load rating, radial direction | C | 46.5 kN |
| Basic static load rating, radial direction | C ₀ | 143 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 | 0.03 kg |
|--------------|---------|

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