



Image may differ from product. See technical specification for details.

## PCM 8085100 E

### 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    | 80 mm  |
| Outside diameter | 85 mm  |
| Width            | 100 mm |

Performance

|                           |          |
|---------------------------|----------|
| Basic dynamic load rating | 630 kN   |
| Basic static load rating  | 1 960 kN |

Properties

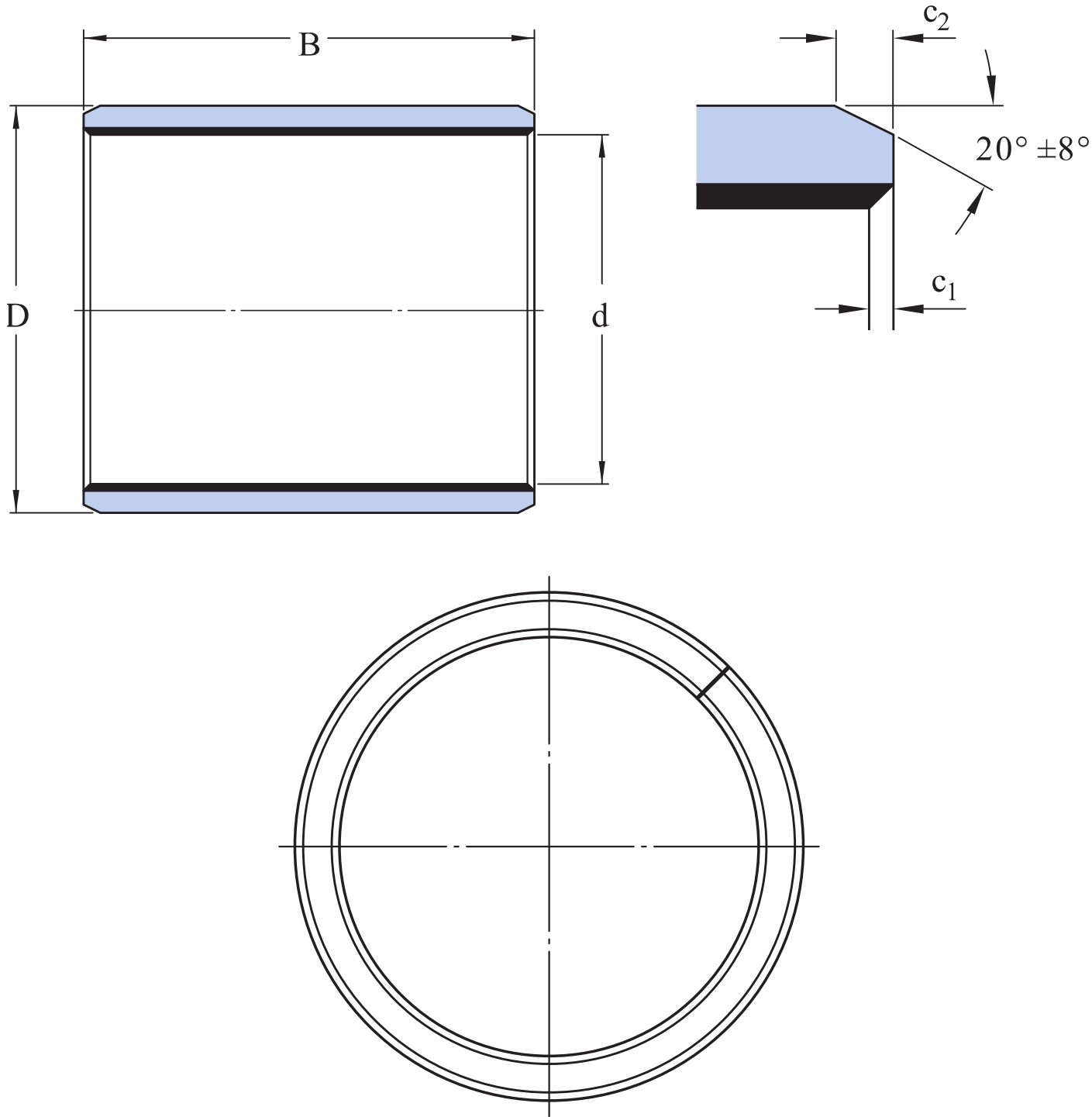
|                       |                |
|-----------------------|----------------|
| Design                | Straight       |
| Material              | PTFE composite |
| Relubrication feature | Without        |

Logistics

|                    |             |
|--------------------|-------------|
| Product net weight | 0.485 kg    |
| eClass code        | 23-05-01-90 |
| UNSPSC code        | 31171605    |

Technical specification

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



Dimensions

|                |             |                                       |
|----------------|-------------|---------------------------------------|
| d              | 80 mm       | Bore diameter                         |
| D              | 85 mm       | Outside diameter                      |
| B              | 100 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   | h8 |
| Tolerance housing | H7 |

## Calculation data

|                                               |                |                       |
|-----------------------------------------------|----------------|-----------------------|
| Basic dynamic load rating, radial direction   | C              | 630 kN                |
| Basic static load rating, radial direction    | C <sub>0</sub> | 1 960 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             |



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