Technical Data Sheet

02/2020
replaces edition 07/16

BL® 30

… High-tech – Slide Bearing Material for extreme loads

Material Composition

BL® *30* is a thermosetting plastic, enriched with special reinforcing fibres and antiseize fillers. BL® *30* was developed as substitution of BL® *20/1 EP* and is offering comparable characteristics.

Special Material Characteristics

- **excellent sliding properties**
- **high temperature resistance**
- **exceptional compressive strength**
- **excellent abrasion resistance**
- **chemical resistance against oil**

Range of Applications

BL® *30* is suitable for applications characterized by sliding movements under high loads and elevated temperatures.

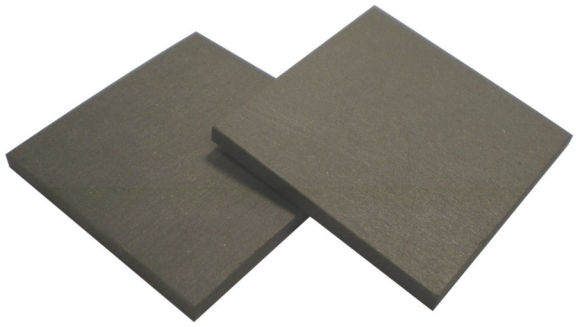
Applications:
- Axial-/Radial bearing in submersible pumps and motors
- Sliding bars and sliding elements in textile driers
- Sliding elements in heated machines e.g. multi daylight presses

Technical Data*:

Max. service temperature • long-term • short-term	 230 250	 °C °C
Coefficient of friction, dry	0.12	—
Abrasion, dry against ball bearing, bearing pressure 5,5 N/mm², circumferential speed 4 m/min	0.001	mm/km
Compressive strength** • at ambient temperature • at 200 °C	 300 110	 N/mm² N/mm²
Compressive modulus • at ambient temperature • at 200 °C	 3,500 1,300	 N/mm² N/mm²
Linear coefficient of thermal expansion X– and Y-Direction Z-Direction	 $17 \cdot 10^{-6}$ $80 \cdot 10^{-6}$	 1/K
Moisture absorption / 24 h	0.15	%
Density	1.75	g/cm³

*) Further technical details and machining recommendations upon request

**) Compressive stress at break. The possible specific compressive strength depends on the particular application.



Delivery information:
Standard thickness [mm]: 3 - 30,0 mm

Specifications are subject to alteration due to technical development. The standard values given in this data sheet are not part of any contract.

Brandenburger Isoliertechnik GmbH & Co. KG · Taubensuhlstraße 6 · D - 76829 Landau
Tel. +49 63 41/51 04-0 · Fax +49 63 41/51 04-155
E-Mail info@brandenburger.de