

iglidur® A181, bar stock round bar

SFRA181-6000



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- For use at up to +90°C
- Food grade material, FDA and EC regulation 10/2011 EC compliant
- Good media-resistance
- Suitable for high speeds
- Low moisture absorption
- Extremely resistant to edge pressure
- Very resistant to shocks and impacts
- Resistant to dirt and dust

Product description

Introducing the iglidur A181 round bar, a versatile solution for maintenance-free sliding elements and plain bearings. Made from food-grade material, this bar stock is compliant with FDA and EC regulations, ensuring safety in applications like medical technology and plant construction. It boasts excellent wear resistance, low moisture absorption, and can withstand high speeds and edge pressure. With its durability against shocks and dirt, the iglidur A181 is perfect for custom solutions and urgent prototypes.

Dimensions

|                  |       |
|------------------|-------|
| Outer diameter d | 60 mm |
|------------------|-------|

Processing instructions

|        |                     |
|--------|---------------------|
| Sawing | undefined undefined |
|--------|---------------------|

Electricity attributes

|                                  |                                |
|----------------------------------|--------------------------------|
| Specific transitional resistance | > 10 <sup>12</sup>             |
| Surface resistance               | > 10 <sup>12</sup> (DIN 53482) |

Properties and approvals

|                                    |                     |
|------------------------------------|---------------------|
| Certificates and standards (icons) | undefined undefined |
|------------------------------------|---------------------|



## Requirements

|                                                         |     |
|---------------------------------------------------------|-----|
| FDA compliant                                           | Yes |
| EU 10/2011 compliant                                    | Yes |
| ESD compliant                                           | No  |
| Mould-resistant according to DIN EN ISO 846 Procedure A | No  |
| RoHS 2 compliant according to EU guideline 2011/65/EU   | Yes |

## Thermal properties

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| Lower application temperature                | -50 °C                              |
| Max. long-term application temperature       | 90 °C                               |
| Max. short-term application temperature      | 110 °C                              |
| Thermal expansion coefficient (at 23°C/73°F) | 11 K <sup>-1</sup> 10 <sup>-5</sup> |
| Heat conductivity                            | 0.25 W/(m K)                        |

## Mechanical properties

|                                   |          |
|-----------------------------------|----------|
| Modulus of elasticity             | 1913 MPa |
| Flexural strength (at 20°C/68°F)  | 48 MPa   |
| Shore D hardness                  | 76.0000  |
| Compressive strength              | 60 MPa   |
| Max. recommended surface pressure | 31 MPa   |

## General properties

|                                                 |               |
|-------------------------------------------------|---------------|
| Material                                        | iglidur® A181 |
| Density                                         | 1.38 g/cm³    |
| Colour                                          | blue          |
| Max. moisture absorption                        | 0.2 Wt.-%     |
| Max. total moisture absorption                  | 1.3 Wt.-%     |
| Coefficient of friction, dynamic, against steel | 0.10 - 0.21   |
| pv value, max. (dry)                            | 0.31 MPa m/s  |

## Certificates and standards

