

iglidur® A500, bar stock round bar

SFRA500-4000



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- Compliant with EC regulation 10/2011 EC, FDA-compliant
- Temperature resistant from -100 °C to +250 °C
- High chemical resistance

Product description

Introducing the iglidur® A500 round bar, a versatile solution for creating maintenance-free sliding elements and plain bearings. This lubrication-free bar stock is FDA-compliant and boasts high chemical resistance, making it ideal for the food, beverage, and medical industries. With a temperature range of -100 °C to +250 °C, it ensures durability in various applications. Designed for custom processing, it can be shaped to your specifications, even offering rapid prototypes when you need them.

Dimensions

|                  |       |
|------------------|-------|
| Outer diameter d | 40 mm |
|------------------|-------|

Processing instructions

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

Electricity attributes

|                                  |                                |
|----------------------------------|--------------------------------|
| Specific transitional resistance | > 10 <sup>14</sup>             |
| Surface resistance               | > 10 <sup>13</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           | -100 °C      |
| Max. long-term application temperature  | 250 °C       |
| Max. short-term application temperature | 300 °C       |
| Heat conductivity                       | 0.24 W/(m K) |

## Mechanical properties

|                                   |          |
|-----------------------------------|----------|
| Modulus of elasticity             | 3600 MPa |
| Flexural strength (at 20°C/68°F)  | 140 MPa  |
| Shore D hardness                  | 83.0000  |
| Compressive strength              | 118 MPa  |
| Max. recommended surface pressure | 120 MPa  |

## General properties

|                                                 |                        |
|-------------------------------------------------|------------------------|
| Material                                        | iglidur® A500          |
| Density                                         | 1.28 g/cm <sup>3</sup> |
| Colour                                          | brown                  |
| Max. moisture absorption                        | 0.3 Wt.-%              |
| Max. total moisture absorption                  | 0.5 Wt.-%              |
| Coefficient of friction, dynamic, against steel | 0.26 - 0.41            |
| pv value, max. (dry)                            | 0.31 MPa m/s           |

## Certificates and standards

