# ASEC



## SLIDING BEARINGS ASRS41(F)

**SKU:** ASRS41(F)

**ASEC Kunststoffen BV**

Marketing 17, 6921 RE Duiven, The Netherlands

T: +31 316 84 44 01 | info@asec.nl

**Categories:** Composite bearings

**Features**

- Lowest possible friction coefficient.
- No stick-slip.
- High load, shock and wear resistant.
- Low water absorption.
- Dry running. Suitable for use in dry, wet and lubricated conditions.
- Suitable for use in dry, wet and lubricated conditions.

**Application**
Applied in offshore, dredging, marine, deck equipment, machines, bridges, sluices, hydraulic cylinders and other equipment.

**Material**
Synthetic fiber with polyester resin with friction modifiers.

ASRS41 bearing materials are reinforced woven polymer materials specially developed for high loads and smooth running with the lowest possible friction. The material contains an ideal concentration of polymer, which gives excellent results in areas where reduced friction and wear are required. ASRS41 also features thermoplastic dimples for further friction reduction.

The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.
ASEC Products 2022 ©.

# ASEC

| Availablity | | Value | Unit |
|---|---|---|---|
| Tube inside diameter | | mm | 20 |
| Tube outside diameter | | mm | 2500 |
| Length standard | | mm | 500 |
| Sheet thickness | | mm | 2.5-200 |
| **Physical properties** | **Test standard** | **Value** | **Unit** |
| Density | ASTM D792 | g/cm³ | 1.20 |
| Max. swell in water at 20 °C | ASTM D570 | % | 0.1 |
| **Mechanical properties** | **Test standard** | **Value** | **Unit** |
| Compressive strength static | ASTM D695 | MPa | 320 |
| Module of elasticity | ASTM D695 | MPa | 2240 |
| Tensile strength | ASTM D3410 | MPa | 60 |
| Shear strength | ASTM D3410 | MPa | 80 |
| Impact strength | ASTM D256 | kJ/m2 | 50 |
| Hardness | ASTDM D785 | Rockwell HRM | 98 |
| Dynamic load capacity | | | on request |
| **Thermal properties** | **Test standard** | **Value** | **Unit** |
| Thermal expansion Parallel | ASTM D696 | *10^-5/ °C | 7 |
| Min. working temperature | | °C | -40 |
| Max. working temperature | | °C | 200 |
| Intermittent working temperature | | °C | 220 |
| **Friction properties** | **Test standard** | **Value** | **Unit** |
| Coefficient of friction | | | on request |
| Max. sliding speed | Pin-on-ring | m/s | 2 |
| Max. pv load dry | Pin-on-ring | MPa*m/s | 0.25 |
| Max. pv load oil lubricated | Pin-on-ring | MPa*m/s | 0.5 |
| Max. pv load regular greased | Pin-on-ring | MPa*m/s | 0.7 |

The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.
ASEC Products 2022 ©.