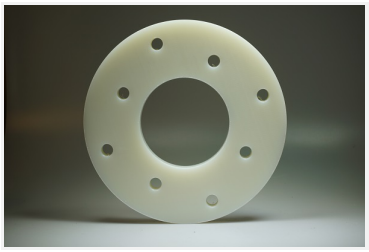
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# Datasheet AE202



AS202 has a high resistance to abrasion and impact, a good example as a substitution material for bronze, aluminum and other non-ferrous metals. It has also significant weight advantages. AS202 reduces lubrication requirements and is non-abrasive to mating surfaces. AS202 is good for general purpose wear and structural parts which need a good balance of strength and toughness. AS202 is approved for contact with food.

## Application

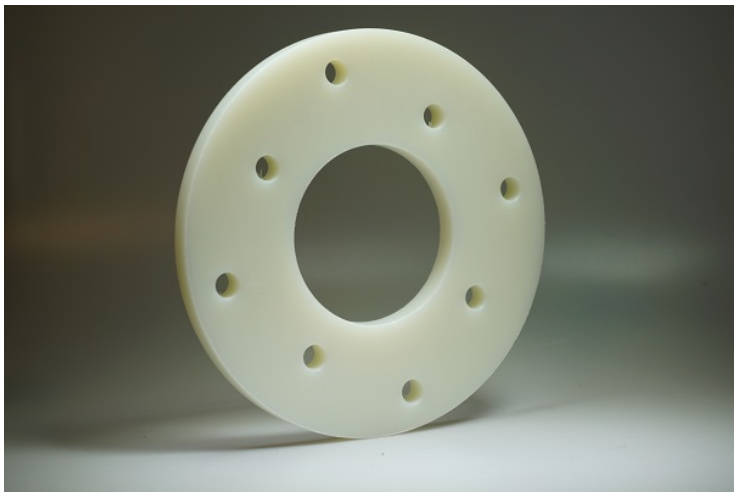
Pulp and paper industry, offshore and marine, textile, general machine building, food industry, material handling, electronics, construction, mining, aerospace and many more.

## Material

Polyamide.

## Availablity

| | Value | Unit |
|---|---|---|
| Rod diameters | 6-300 | mm |
| Tube inside diameter | 10-130 | mm |
| Tube outside diameter | 25-310 | mm |
| Length standard | 3000 | mm |
| Sheet thickness | 2-100 | mm |
| Sheet size | 1000 x 2000 | mm |



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# AE202 - Specifications

## Physical properties

| | Test standard | Value | Unit |
|---|---|---|---|
| Density | | 1,13 | g/cm³ |
| Thermal conductivity | Method A | 0,33 | W/m°K |
| Specific heat capacity | IEC 1006 | 1,7 | J/g.K |
| Moisture absorption at 23°C, 50% RH | ISO 62 | 3 | % |
| Water absorption at 23 °C | ISO 62 | 9 | % |
| Flammability | UL 94 | HB | [-] |

## Mechanical properties

| | Test standard | Value | Unit |
|---|---|---|---|
| Tensile strength | ISO 527 | 80 | MPa |
| Hardness | ISO 868 | 82 | SHORE-D |
| Yield stress | ISO 527 | 79 | MPa |
| Elongation at break | ISO 527 | 70 | % |
| Modulus of elasticity in tension | ISO 527 | 3200 | MPa |
| Bending modulus | ISO 178 | 3000 | MPa |
| Flexural strength | ISO 178 | 110 | MPa |
| Charpy impact strength +23°C | ISO 179/1eU | no break | kJ/m² |
| Charpy notched impact strength +23°C | ISO/1eA | 6,4 | kJ/m² |
| Ball indentation hardness | ISO 2039-1 | 172 | N/mm² |
| Compressive modulus | ISO 604 | 2400 | MPa |

## Thermal properties

| | Test standard | Value | Unit |
|---|---|---|---|
| Min. working temperature | | -40 | °C |
| Max. working temperature | | 100 | °C |
| Intermittent working temperature | | 170 | °C |
| Heat distortion temperature | Method A ISO 75 | 70 | °C |
| Melting temperature | ISO 3146 | 220 | °C |
| Thermal coefficient of linear expansion | DIN 53752 | 07-10 | 1/K.10-5 |

## Friction properties

| | Test standard | Value | Unit |
|---|---|---|---|

## Electrical properties

| | Test standard | Value | Unit |
|---|---|---|---|
| Dielectric constant | | on request | |
| Dielectric loss factor | | on request | |
| Dielectric strength | IEC 243 | 25 | KV/mm |
| Dielectric constant at 1MHZ | IEC 250 | 3,5 | [-] |

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## Electrical properties

| | | | |
|---|---|---|---|
| Volume resistivity | IEC 93 | $10^{13}$ | Ω.cm |
| Surface resistivity | IEC 93 | $10^{13}$ | Ω |
| Resistance to tracking (CTI) | | on request | |

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