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# Datasheet AE900PE



Designed for the demand of sliding applications and is used in mechanical systems and appliance engineering. It can also been use for structural parts. AE900PE can resist high loads. Due to its outstanding tribological properties they have a wear resistant with minimal coefficients of friction.

## Application

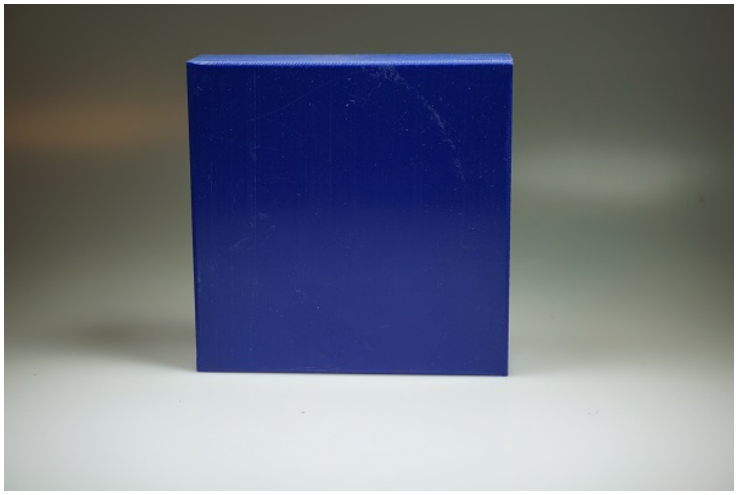
| |
|---|
| Highly stressed sliding and guide elements |

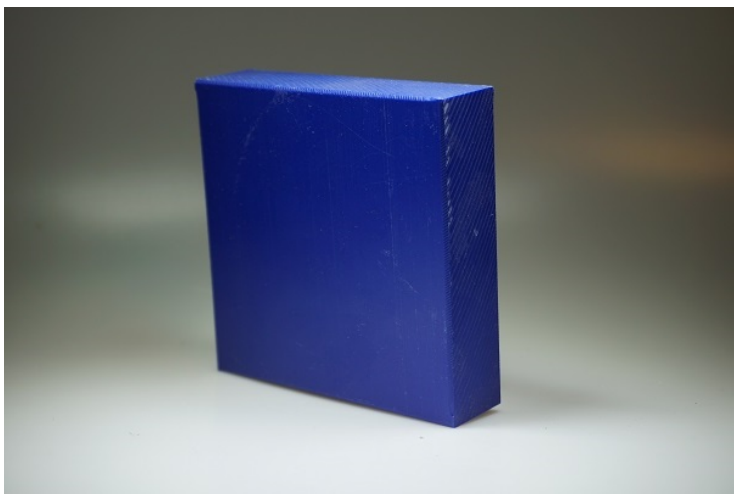
## Material

| |
|---|
| POM-C with PE. |

## Availablity

| | Value | Unit |
|---|---|---|
| Rod diameters | 6-150 | mm |
| Tube inside diameter | on request | |
| Tube outside diameter | on request | |
| Length standard | 3000 | mm |
| Sheet thickness | 8-100 | mm |
| Sheet size | 1000x2000 | mm |





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# AE900PE - Specifications

## Physical properties

| | Test standard | Value | Unit |
|---|---|---|---|
| Density | | 1,34 | g/cm³ |
| Thermal conductivity | | on request | |
| Specific heat capacity | | on request | |
| Moisture absorption at 23°C, 50% RH | ISO 62 | 0,2 | % |
| Water absorption at 23 °C | ISO 62 | 0,8 | % |
| Flammability | UL 94 | HB | [-] |

## Mechanical properties

| | Test standard | Value | Unit |
|---|---|---|---|
| Tensile strength | ISO 527 | 40 | MPa |
| Hardness | ISO 868 | 77 | SHORE-D |
| Yield stress | ISO 527 | 40 | MPa |
| Elongation at break | ISO 527 | 7 | % |
| Modulus of elasticity in tension | ISO 527 | 2100 | MPa |
| Bending modulus | | on request | |
| Flexural strength | | on request | |
| Charpy impact strength +23°C | ISO 179/1eU | 17 | kJ/m² |
| Charpy notched impact strength +23°C | ISO/1eA | 2,5 | kJ/m² |
| Ball indentation hardness | | on request | |
| Compressive modulus | | on request | |

## Thermal properties

| | Test standard | Value | Unit |
|---|---|---|---|
| Min. working temperature | | -50 | °C |
| Max. working temperature | | 80 | °C |
| Intermittent working temperature | | 100 | °C |
| Heat distortion temperature | | on request | |
| Melting temperature | | on request | |
| Glass transition temperature | ISO 3146 | -60 | °C |
| Thermal coefficient of linear expansion | DIN 53752 | 14 | 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 | | on request | |

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## Electrical properties

| | | | |
|---|---|---|---|
| Dielectric constant at 1MHZ | IEC 250 | 4,4 | [-] |
| 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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