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Datasheet AE900H



Due to a higher degree of crystallinity AE900H becomes a higher density and hardness. Also it becomes a higher strength and better creep resistance.

Application

Medical, pumps, chemical equipment, sport equipment and automotive.

Material

POM-H.

Availablity

| | Value | Unit |
|-----------------------|------------|------|
| Rod diameters | on request | |
| Tube inside diameter | on request | |
| Tube outside diameter | on request | |
| Length standard | on request | |
| Sheet thickness | on request | |
| Sheet size | on request | |



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AE900H - Specifications

Physical properties

| | Test standard | Value | Unit |
|-------------------------------------|---------------|------------|------|
| Density | | on request | |
| 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 | НВ | [-] |

Mechanical properties

| | Test standard | Value | Unit |
|---|---------------|------------|---------|
| Tensile strength | ISO 527 | 76 | MPa |
| Hardness | ISO 868 | 84 | SHORE-D |
| Yield stress | ISO 527 | 76 | MPa |
| Elongation at break | ISO 527 | 38 | % |
| Modulus of elasticity in tension | ISO 527 | 3400 | MPa |
| Bending modulus | Flexural test | 3000 | MPa |
| Flexural strength | | on request | |
| Charpy impact strength +23°C | ISO 179/1eU | no break | kJ/m² |
| Charpy notched impact strength +23°C | ISO/1eA | 11 | 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 | | 90 | °C |
| Intermittent working temperature | | 150 | °C |
| Heat distortion temperature | Method A ISO 75 | 100 | °C |
| Melting temperature | ISO 3146 | 178 | °C |
| Thermal coefficient of linear expansion | DIN 53752 | 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 | | on request | |
| Dielectric constant at 1MHZ | IEC 250 | 3,8 | [-] |

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Electrical properties

| Volume resistivity | IEC 93 | 10 14 | Ω.cm |
|------------------------------|--------|------------|------|
| Surface resistivity | IEC 93 | 10 14 | Ω |
| Resistance to tracking (CTI) | | on request | |

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