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Datasheet AE900BL



AE900BL has high mechanical strength, heat resistance and good antifriction properties. It's characterized by a low coefficient of friction and good wear properties, unaffected by wet environments. AE900BL offers also a good resistance to a wide range of chemicals and many solvents. It is porosity freed and most formulations are approved for contact with food.

Application

Food processing, agriculture, medical, electric, electronic, automotive, general machine building, transport and logistics, bottle and car washing equipment, sports equipment, office machinery, textile.

Material

POM-C.

Availablity

| | Value | Unit |
|-----------------------|-------------------------|------|
| Rod diameters | 6-500 | mm |
| Tube inside diameter | 10-375 | mm |
| Tube outside diameter | 25-500 | mm |
| Length standard | 1000/3000 | mm |
| Sheet thickness | 1-150 | mm |
| Sheet size | 610/1000/1220x2000/3000 | mm |





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AE900BL - Specifications

Physical properties

| | Test standard | Value | Unit |
|-------------------------------------|---------------|-------|-------|
| Density | | 1,41 | g/cm³ |
| Thermal conductivity | Method A | 0,33 | W/m°K |
| Specific heat capacity | IEC 1006 | 1,5 | J/g.K |
| 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 | 65 | MPa |
| Hardness | ISO 868 | 81 | SHORE-D |
| Yield stress | ISO 527 | 65 | МРа |
| Elongation at break | ISO 527 | 40 | % |
| Modulus of elasticity in tension | ISO 527 | 2900 | МРа |
| Bending modulus | Flexural test | 2800 | МРа |
| Flexural strength | ISO 178 | 95 | МРа |
| Charpy impact strength +23°C | ISO 179/1eU | no break | kJ/m² |
| Charpy notched impact strength +23°C | ISO/1eA | 7 | kJ/m² |
| Ball indentation hardness | ISO 2039-1 | 125 | N/mm² |
| Compressive modulus | ISO 604 | 2400 | MPa |

Thermal properties

| | Test standard | Value | Unit |
|---|-----------------|-------|----------|
| Min. working temperature | | -50 | °C |
| Max. working temperature | | 100 | °C |
| Intermittent working temperature | | 140 | °C |
| Heat distortion temperature | Method A ISO 75 | 110 | °C |
| Melting temperature | ISO 3146 | 164 | °C |
| Glass transition temperature | ISO 3146 | -60 | °C |
| Thermal coefficient of linear expansion | DIN 53752 | 11 | 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 | >20 | KV/mm |

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Electrical properties

| Dielectric constant at 1MHZ | IEC 250 | 3,8 | [-] |
|------------------------------|--------------|------------------|------|
| Volume resistivity | IEC 93 | 10 ¹⁴ | Ω.cm |
| Surface resistivity | IEC 93 | 10 ¹³ | Ω |
| Resistance to tracking (CTI) | DIN EN 60112 | 600 | [-] |