

Product Texts

BERGAMID A70MOS2, PA66 unreinforced
with Molybdenumdisulfide, different contents possible,
good surface finish

| Mechanical properties | dry / cond | Unit | Test Standard |
|---------------------------------------|-------------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 1600 / 3200 | MPa | ISO 527 |
| Yield stress | 60 / 80 | MPa | ISO 527 |
| Yield strain | 25 / 4 | % | ISO 527 |
| Nominal strain at break | >50 / 20 | % | ISO 527 |
| Charpy impact strength, +23°C | N / N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | N / N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 25 / 6 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | - / 4 | kJ/m ² | ISO 179/1eA |

| Thermal properties | dry / cond | Unit | Test Standard |
|---|-------------------|-------------|----------------------|
| ISO Data | | | |
| Melting temperature, 10°C/min | 261 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | 80 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 220 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 85 / * | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 82 / * | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 1.6 / * | mm | - |
| Burning behav. at thickness h | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 0.8 / * | mm | - |

| Electrical properties | dry / cond | Unit | Test Standard |
|------------------------------|-------------------|-------------|----------------------|
| ISO Data | | | |
| Relative permittivity, 1MHz | 5 / 3.6 | - | IEC 62631-2-1 |
| Dissipation factor, 1MHz | 2000 / 300 | E-4 | IEC 62631-2-1 |
| Volume resistivity | 1E10 / 1E13 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | * / 1E10 | Ohm | IEC 62631-3-2 |
| Electric strength | 80 / 120 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 / - | - | IEC 60112 |

| Other properties | dry / cond | Unit | Test Standard |
|-------------------------|-------------------|-------------------|----------------------|
| Water absorption | 8.5 / * | % | Sim. to ISO 62 |
| Humidity absorption | 2.8 / * | % | Sim. to ISO 62 |
| Density | - / 1140 | kg/m ³ | ISO 1183 |

| Material specific properties | dry / cond | Unit | Test Standard |
|-------------------------------------|-------------------|--------------------|----------------------|
| ISO Data | | | |
| Viscosity number | 160 / * | cm ³ /g | ISO 307, 1157, 1628 |

| Test specimen production | Value | Unit | Test Standard |
|-------------------------------------|--------------|-------------|----------------------|
| ISO Data | | | |
| Injection Molding, melt temperature | 280 | °C | ISO 294 |
| Injection Molding, mold temperature | 40 | °C | ISO 294 |

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Delivery form

Pellets

Other text information

Injection Molding

PREPROCESSING

Max. Water Content 0,1%

Pre-Drying: 80°C 4 Hours

PROCESSING

Melt Temperature 280-300°C

Mould Temperature 40-80°C