



# POM C FG 45/35x1000 mm svart

Artikelnr P1007027

Material POM

## Tekniska egenskaper

### Density & Weight

| Egenskap | Värde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
| Density  | 1.24  | g/cm³ | ASTM D792         |

### Tensile Properties

| Egenskap                        | Värde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 51    | MPa   | DIN EN ISO 527-2  |
| Modulus of elasticity (tensile) | 1200  | MPa   | ASTM D790         |
| Breakdown Voltage               | 76.5  | MPa   | ISO 527           |
| Break Elongation                | 300   | %     | ASTM D638         |

### Temperature Limits

| Egenskap                                   | Värde  | Enhet | Provningsstandard |
|--------------------------------------------|--------|-------|-------------------|
| Melting point                              | 222    | °C    | ISO 3146          |
| Maximal operating temperature (short-term) | 129    | °C    | UL746B            |
| Maximum Operating Temperature              | 90     | °C    |                   |
| Minimum temperature                        | -46.25 | °C    |                   |
| Heat deflection temperature (HDT/A)        | 105    | °C    | ASTM D648         |
| Heat deflection temperature (HDT/B)        | 155    | °C    | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 50     | °C    | ISO 306           |

### Insulation Properties

| Egenskap | Värde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
|----------|-------|-------|-------------------|

| Egenskap                        | Värde            | Enhet | Provningsstandard |
|---------------------------------|------------------|-------|-------------------|
| Dielectric Strength             | 85               | kV/mm | IEC 60243-1       |
| Volume Resistivity              | 10 <sup>12</sup> | Ω     | IEC 60093         |
| Dielectric Constant (1 MHz)     | 3.7              | -     | IEC 60250         |
| Dielectric loss factor (1 MHz)  | 0.0              | -     | IEC 60250         |
| Dielectric loss factor (100 Hz) | 0.0              | -     | IEC 60250         |

Fire Classification

| Egenskap                            | Värde | Enhet | Provningsstandard |
|-------------------------------------|-------|-------|-------------------|
| Flammability Classification (UL 94) | 60695 |       | UL 94             |

Flexural Properties

| Egenskap          | Värde | Enhet | Provningsstandard |
|-------------------|-------|-------|-------------------|
| Flexural Strength | 58    | MPa   | ASTM D638         |

Thermal Conductivity

| Egenskap             | Värde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.3   | W/(m·K) | DIN 52612         |

Static spread

| Egenskap                         | Värde            | Enhet | Provningsstandard |
|----------------------------------|------------------|-------|-------------------|
| Surface Resistivity              | 10 <sup>13</sup> | Ω     | IEC 60093         |
| Comparative Tracking Index (CTI) | 600              | V     | IEC 60112         |

Moisture Absorption

| Egenskap                       | Värde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Water absorption to saturation | 2.2   | %     | ASTM D955         |
| Water Absorption to Saturation | 0.5   | %     | ASTM D570         |

Impact Resistance

| Egenskap                         | Värde | Enhet | Provningsstandard |
|----------------------------------|-------|-------|-------------------|
| Notched impact strength (Charpy) | 6     | kJ/m² | DIN EN ISO 179-1  |
| Impact Resistance (Charpy)       | 19    | kJ/m² | ISO 179/1eU       |

Thermal Expansion

| Egenskap                      | Värde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 0.4   | 10 <sup>-4</sup> /K | ISO 11359         |

Hardness

| Egenskap               | Värde | Enhet     | Provningsstandard |
|------------------------|-------|-----------|-------------------|
| Hardness Shore D       | 83    | ° Shore D | ISO 868           |
| Ball pressure hardness | 230   | MPa       | ISO 2039-1        |

Godkännanden

- EU 10/2011
- FDA
- REACH
- RoHS