



**POM C FG 50/30x3000 mm natur**

Artikelnr P1007496

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| Kategori | POM |
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## 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    | Å°C   | ISO 3146          |
| Maximal operating temperature (short-term) | 129    | Å°C   | UL746B            |
| Maximum Operating Temperature              | 90     | Å°C   |                   |
| Minimum temperature                        | -46.25 | Å°C   |                   |
| Heat deflection temperature (HDT/A)        | 105    | Å°C   | ASTM D648         |
| Heat deflection temperature (HDT/B)        | 155    | Å°C   | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 50     | Å°C   | ISO 306           |

## Insulation Properties

| Egenskap                        | Värde                | Enhet | Provningsstandard |
|---------------------------------|----------------------|-------|-------------------|
| Dielectric Strength             | 85                   | kV/mm | IEC 60243-1       |
| Volume Resistivity              | 10 <sup>14</sup> Ω·m | Ω·m   | 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>14</sup> Ω | 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/m <sup>2</sup> | DIN EN ISO 179-1  |
| Impact Resistance (Charpy)       | 19    | kJ/m <sup>2</sup> | ISO 179/1eU       |

### Thermal Expansion

| Egenskap                      | Värde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 0.4   | 10 <sup>-6</sup> /K | ISO 11359         |

Hardness

| Egenskap               | V rde | Enhet     | Provningsstandard |
|------------------------|-------|-----------|-------------------|
| Hardness Shore D       | 83    |   Shore D | ISO 868           |
| Ball pressure hardness | 230   | MPa       | ISO 2039-1        |

Godk nnanden

- EU 10/2011
- FDA
- REACH
- RoHS