



## PEEK+PTFE 50x3000 mm blue

Artikelnr P1501475  
Kategori PEEK

### Tekniska egenskaper

#### Density & Weight

| Egenskap | VÄrde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
| Density  | 1.31  | g/cm³ | ISO 1183          |

#### Tensile Properties

| Egenskap                        | VÄrde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Modulus of elasticity (tensile) | 4400  | MPa   | ISO 527-2         |
| Break Elongation                | 20    | %     | ISO 527-2         |

#### Temperature Limits

| Egenskap                                   | VÄrde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 340   | °C    | ISO 3146          |
| Maximal operating temperature (short-term) | 310   | °C    |                   |
| Maximum Operating Temperature              | 200   | °C    |                   |
| Heat deflection temperature (HDT/A)        | 160   | °C    | ISO 75-2          |

#### Insulation Properties

| Egenskap                       | VÄrde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Dielectric Strength            | 24    | kV/mm | IEC 60243-1       |
| Volume Resistivity             | 10¹¹  | Ω·cm  | IEC 60093         |
| Dielectric Constant (1 MHz)    | 3.6   | -     | IEC 60250         |
| Dielectric Constant (100 Hz)   | 3.2   | -     | IEC 60250         |
| Dielectric loss factor (1 MHz) | 0.0   | -     | IEC 60250         |

| Egenskap                        | VÄrde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Dielectric loss factor (100 Hz) | 0.0   | -     | IEC 60250         |

### Flexural Properties

| Egenskap          | VÄrde | Enhet | Provningsstandard |
|-------------------|-------|-------|-------------------|
| Flexural Strength | 110   | MPa   | ISO 527-2         |

### Thermal Conductivity

| Egenskap             | VÄrde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.25  | W/(m·K) | DIN 52612         |

### Static spread

| Egenskap                         | VÄrde              | Enhet | Provningsstandard |
|----------------------------------|--------------------|-------|-------------------|
| Surface Resistivity              | 10 <sup>11</sup> Å | Ω     | IEC 60093         |
| Comparative Tracking Index (CTI) | 150                | V     | IEC 60112         |

### Moisture Absorption

| Egenskap                       | VÄrde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Water absorption to saturation | 0.2   | %     | ISO 62            |
| Water Absorption to Saturation | 0.45  | %     | ISO 62            |

### Impact Resistance

| Egenskap                         | VÄrde | Enhet             | Provningsstandard |
|----------------------------------|-------|-------------------|-------------------|
| Notched impact strength (Charpy) | 3.5   | kJ/m <sup>2</sup> | ISO 179/1eA       |

### Thermal Expansion

| Egenskap                      | VÄrde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 0.5   | 10 <sup>-6</sup> /K | ISO 11359         |

### Hardness

| Egenskap               | VÄrde | Enhet | Provningsstandard |
|------------------------|-------|-------|-------------------|
| Ball pressure hardness | 230   | MPa   | ISO 2039-1        |

## Godkännanden

- REACH
- RoHS