



**PEEK Mod 140/50x3000 mm black**

|           |          |
|-----------|----------|
| Artikelnr | P1501230 |
| Kategori  | PEEK     |

## Tekniska egenskaper

## Density & Weight

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

## Tensile Properties

| Egenskap                        | VÄrde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 112   | MPa   | ISO527-2          |
| Modulus of elasticity (tensile) | 4400  | MPa   | ISO 527-2         |
| Breakdown Voltage               | 67    | MPa   | ISO 527           |
| Break Elongation                | 20    | %     | ISO 527-2         |

## Temperature Limits

| Egenskap                                   | VÄrde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 340   | Å°C   | ISO 3146          |
| Maximal operating temperature (short-term) | 291   | Å°C   | UL746B            |
| Maximum Operating Temperature              | 245   | Å°C   |                   |
| Minimum temperature                        | -35   | Å°C   |                   |
| Heat deflection temperature (HDT/A)        | 160   | Å°C   | ISO 75-2          |
| Heat deflection temperature (HDT/B)        | 240   | Å°C   | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 50    | Å°C   | ISO 306           |

## Insulation Properties

| Egenskap                        | VÄrde                 | Enhet | Provningsstandard |
|---------------------------------|-----------------------|-------|-------------------|
| Dielectric Strength             | 24                    | kV/mm | IEC 60243-1       |
| Volume Resistivity              | 10 <sup>14</sup> Ω·cm | 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         |
| Dielectric loss factor (100 Hz) | 0.0                   | -     | IEC 60250         |

Fire Classification

| Egenskap                            | VÄrde | Enhet | Provningsstandard |
|-------------------------------------|-------|-------|-------------------|
| Flammability Classification (UL 94) | 0     |       | UL 94             |

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>14</sup> Ω | 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       |
| Impact Resistance (Charpy)       | 92    | kJ/m <sup>2</sup> | ISO179/1eU        |

Thermal Expansion

| Egenskap | VÄrde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
|----------|-------|-------|-------------------|

| Egenskap                      | V rde | Enhet   | Provningsstandard |
|-------------------------------|-------|---------|-------------------|
| Thermal Expansion Coefficient | 0.5   | 10   /K | DIN 11359         |

Hardness

| Egenskap               | V rde | Enhet      | Provningsstandard |
|------------------------|-------|------------|-------------------|
| Hardness Shore D       | 90    |    Shore D | DIN EN ISO 868    |
| Ball pressure hardness | 230   | MPa        | ISO 2039-1        |

Godk nnanden

- EU 10/2011
- FDA
- REACH
- RoHS
- UL 94