



## PA6 E 3000x500x30 mm svart

Artikelnr P1001050  
Kategori PA

### Tekniska egenskaper

#### Density & Weight

| Egenskap | VÄrde | Enhet             | Provningsstandard |
|----------|-------|-------------------|-------------------|
| Density  | 1.14  | g/cm <sup>3</sup> | ISO 1183          |

#### Tensile Properties

| Egenskap                        | VÄrde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 70    | MPa   | DIN EN ISO 527    |
| Modulus of elasticity (tensile) | 3250  | MPa   | ISO 527-2         |
| Breakdown Voltage               | 75    | MPa   | ISO 527-2         |
| Break Elongation                | 40    | %     | ISO 527-2         |

#### Temperature Limits

| Egenskap                                   | VÄrde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 220   | °C    | ISO 3146          |
| Maximal operating temperature (short-term) | 160   | °C    |                   |
| Maximum Operating Temperature              | 90.5  | °C    |                   |
| Minimum temperature                        | -36   | °C    |                   |
| Heat deflection temperature (HDT/A)        | 70    | °C    | ISO 75-2          |
| Heat deflection temperature (HDT/B)        | 140   | °C    | ISO 75-2          |
| Vicat softening temperature (VST/B/50)     | 190   | °C    | ISO 306           |

#### Insulation Properties

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

| Egenskap                        | VÄrde                | Enhet | Provningsstandard |
|---------------------------------|----------------------|-------|-------------------|
| Dielectric Strength             | 25                   | 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 Constant (100 Hz)    | 3.9                  | -     | 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) | 3     |       | UL 94             |

Flexural Properties

| Egenskap          | VÄrde | Enhet | Provningsstandard |
|-------------------|-------|-------|-------------------|
| Flexural Strength | 76    | MPa   | ISO 527-2         |

Thermal Conductivity

| Egenskap             | VÄrde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.28  | 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 | 2.5   | %     | ISO 62            |
| Water Absorption to Saturation | 9     | %     | ISO 62            |

Impact Resistance

| Egenskap                         | VÄrde | Enhet             | Provningsstandard |
|----------------------------------|-------|-------------------|-------------------|
| Notched impact strength (Charpy) | 5.5   | kJ/m <sup>2</sup> | ISO 179/1eA       |

Thermal Expansion

| Egenskap                      | VÄrde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 0.9   | 10 <sup>-6</sup> /K | ISO 11359         |

Hardness

| Egenskap               | V rde | Enhet     | Provningsstandard |
|------------------------|-------|-----------|-------------------|
| Hardness Shore D       | 82    |   Shore D | DIN EN ISO 868    |
| Ball pressure hardness | 150   | MPa       | ISO 2039-1        |

Godk nnanden

- REACH
- RoHS