



## PA6.6 80x3000 mm svart

Artikelnr P1001912  
Kategori PA

### Tekniska egenskaper

#### Density & Weight

| Egenskap | VÄrde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
| Density  | 1.14  | g/cm³ | ISO 1183          |

#### Tensile Properties

| Egenskap                        | VÄrde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 85    | MPa   | DIN EN ISO 527    |
| Modulus of elasticity (tensile) | 3100  | MPa   | ISO 527-2         |
| Break Elongation                | 40    | %     | ISO 527-2         |

#### Temperature Limits

| Egenskap                                   | VÄrde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 260   | °C    | ISO 3146          |
| Maximal operating temperature (short-term) | 175   | °C    |                   |
| Maximum Operating Temperature              | 95    | °C    |                   |
| Minimum temperature                        | -30   | °C    |                   |
| Heat deflection temperature (HDT/A)        | 85    | °C    | ISO 75-2          |

#### Insulation Properties

| Egenskap                    | VÄrde | Enhet | Provningsstandard |
|-----------------------------|-------|-------|-------------------|
| Dielectric Strength         | 27    | kV/mm | IEC 60243-1       |
| Volume Resistivity          | 10¹¹  | Ω·cm  | IEC 60093         |
| Dielectric Constant (1 MHz) | 3.55  | -     | IEC 60250         |

| Egenskap                        | VÄrde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Dielectric Constant (100 Hz)    | 3.8   | -     | IEC 60250         |
| Dielectric loss factor (1 MHz)  | 0.02  | -     | IEC 60250         |
| Dielectric loss factor (100 Hz) | 0.0   | -     | IEC 60250         |

Flexural Properties

| Egenskap          | VÄrde | Enhet | Provningsstandard |
|-------------------|-------|-------|-------------------|
| Flexural Strength | 998.3 | MPa   | ISO 178           |

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>11</sup> Å | Ω     | IEC 60093         |
| Comparative Tracking Index (CTI) | 600                | V     | IEC 60112         |

Moisture Absorption

| Egenskap                       | VÄrde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Water absorption to saturation | 2.4   | %     | ISO 62            |
| Water Absorption to Saturation | 8     | %     | ISO 62            |

Impact Resistance

| Egenskap                         | VÄrde | Enhet             | Provningsstandard |
|----------------------------------|-------|-------------------|-------------------|
| Notched impact strength (Charpy) | 6     | kJ/m <sup>2</sup> | ISO 179/1eA       |
| Impact Resistance (Charpy)       | 50    | kJ/m <sup>2</sup> | ISO 179           |

Thermal Expansion

| Egenskap                      | VÄrde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 0.8   | 10 <sup>-6</sup> /K | ISO 11359         |

Hardness

| Egenskap               | VÄrde | Enhet      | Provningsstandard |
|------------------------|-------|------------|-------------------|
| Hardness Shore D       | 83    | Å° Shore D | DIN EN ISO 868    |
| Ball pressure hardness | 174   | MPa        | ISO 2039-1        |

Godkännanden

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