



# PA6 E FG 75x1000 mm natur

Artikelnr P1001221  
Material PA

## Tekniska egenskaper

### Density & Weight

| Egenskap | Värde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
| Density  | 1.14  | g/cm³ | ISO 1183          |
| Density  | 1.13  | g/cm³ | ISO 1183          |

### Tensile Properties

| Egenskap                        | Värde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 70    | MPa   | DIN EN ISO 527    |
| Tensile Strength                | 83    | MPa   | ISO 527           |
| Modulus of elasticity (tensile) | 3250  | MPa   | ISO 527-2         |
| Modulus of elasticity (tensile) | 3330  | MPa   | ISO 527           |
| Breakdown Voltage               | 75    | MPa   | ISO 527-2         |
| Breakdown Voltage               | 54    | MPa   | ISO 527           |
| Break Elongation                | 40    | %     | ISO 527-2         |
| Break Elongation                | 50    | %     | ISO 527           |

### Temperature Limits

| Egenskap                                   | Värde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 220   | °C    | ISO 3146          |
| Melting point                              | 220   | °C    | ISO 3146          |
| Maximal operating temperature (short-term) | 160   | °C    |                   |
| Maximal operating temperature (short-term) | 130   | °C    | UL746B            |

| Egenskap                               | Värde | Enhet | Provningsstandard |
|----------------------------------------|-------|-------|-------------------|
| Maximum Operating Temperature          | 90.5  | °C    | ISO 75-2          |
| Maximum Operating Temperature          | 85    | °C    |                   |
| Minimum temperature                    | -36   | °C    |                   |
| Minimum temperature                    | -40   | °C    |                   |
| Heat deflection temperature (HDT/A)    | 70    | °C    |                   |
| Heat deflection temperature (HDT/A)    | 75    | °C    |                   |
| Heat deflection temperature (HDT/B)    | 140   | °C    |                   |
| Heat deflection temperature (HDT/B)    | 190   | °C    | ISO 75-2          |
| Vicat softening temperature (VST/B/50) | 190   | °C    | ISO 306           |

Insulation Properties

| Egenskap                        | Värde            | Enhet | Provningsstandard |
|---------------------------------|------------------|-------|-------------------|
| Dielectric Strength             | 30               | kV/mm | IEC 60243-1       |
| Dielectric Strength             | 25               | kV/mm | IEC 60243-1       |
| Volume Resistivity              | 10 <sup>13</sup> | Ω·cm  | IEC 60093         |
| Volume Resistivity              | 10 <sup>12</sup> | Ω·cm  | IEC 60093         |
| Dielectric Constant (1 MHz)     | 3.8              | -     | IEC 60250         |
| Dielectric Constant (1 MHz)     | 3.7              | -     | IEC 60250         |
| Dielectric loss factor (1 MHz)  | 0.03             | -     | 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         |
| Flexural Strength | 100   | MPa   | ISO 178           |

Thermal Conductivity

| Egenskap             | Värde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.32  | W/(m·K) | DIN 52612         |

| Egenskap             | Värde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.28  | W/(m·K) | DIN 52612         |

Static spread

| Egenskap                         | Värde            | Enhet | Provningsstandard |
|----------------------------------|------------------|-------|-------------------|
| Surface Resistivity              | 10 <sup>13</sup> | Ω     | IEC 60093         |
| Comparative Tracking Index (CTI) | 600              | V     | IEC 60112         |
| Surface Resistivity              | 10 <sup>13</sup> | 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 | 9.5   | %     | ISO 62            |
| Water Absorption to Saturation | 9     | %     | ISO 62            |
| Water Absorption to Saturation | 9.5   | %     | ISO 62            |

Impact Resistance

| Egenskap                         | Värde | Enhet | Provningsstandard |
|----------------------------------|-------|-------|-------------------|
| Notched impact strength (Charpy) | 5.5   | kJ/m² | ISO 179/1eA       |
| Notched impact strength (Charpy) | 7     | kJ/m² | ISO 179           |

Thermal Expansion

| Egenskap                      | Värde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 1.1   | 10 <sup>-4</sup> /K | ISO 11359         |
| Thermal Expansion Coefficient | 0.9   | 10 <sup>-4</sup> /K | ISO 11359         |

Hardness

| Egenskap               | Värde | Enhet     | Provningsstandard |
|------------------------|-------|-----------|-------------------|
| Hardness Shore D       | 82    | ° Shore D | DIN EN ISO 868    |
| Hardness Shore D       | 80    | ° Shore D | ISO 868           |
| Ball pressure hardness | 150   | MPa       | ISO 2039-1        |
| Ball pressure hardness | 155   | MPa       | ISO 2039          |

Godkännanden

- EU 10/2011
- FDA
- REACH
- RoHS

