



## PA6.6 FG 16x1000 mm natur

Artikelnr P1002303  
Material PA

### Tekniska egenskaper

#### Density & Weight

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

#### Tensile Properties

| Egenskap                        | Värde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 80    | MPa   | ISO 527           |
| Modulus of elasticity (tensile) | 3285  | MPa   | ISO 527-2         |
| Break Elongation                | 55    | %     | ISO 527-2         |

#### Temperature Limits

| Egenskap                                   | Värde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 260   | °C    | ISO 3146          |
| Maximal operating temperature (short-term) | 140   | °C    | UL746B            |
| Maximum Operating Temperature              | 95    | °C    |                   |
| Minimum temperature                        | -30   | °C    |                   |
| Heat deflection temperature (HDT/A)        | 92.5  | °C    | ISO 75-2          |
| Heat deflection temperature (HDT/B)        | 200   | °C    | ISO 75-2          |

#### Insulation Properties

| Egenskap            | Värde | Enhet | Provningsstandard |
|---------------------|-------|-------|-------------------|
| Dielectric Strength | 28.5  | kV/mm | IEC 60243-1       |

| Egenskap                        | Värde                    | Enhet | Provningsstandard |
|---------------------------------|--------------------------|-------|-------------------|
| Volume Resistivity              | ~ <b>10<sup>14</sup></b> | Ω·cm  | IEC 60093         |
| Dielectric Constant (1 MHz)     | <b>3.45</b>              | -     | IEC 60250         |
| Dielectric Constant (100 Hz)    | <b>3.8</b>               | -     | IEC 60250         |
| Dielectric loss factor (1 MHz)  | <b>0.11</b>              | -     | IEC 60250         |
| Dielectric loss factor (100 Hz) | <b>0.0</b>               | -     | IEC 60250         |

### Flexural Properties

| Egenskap          | Värde       | Enhet | Provningsstandard |
|-------------------|-------------|-------|-------------------|
| Flexural Strength | <b>1455</b> | MPa   | ISO 178           |

### Thermal Conductivity

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

### Static spread

| Egenskap                         | Värde                  | Enhet | Provningsstandard |
|----------------------------------|------------------------|-------|-------------------|
| Surface Resistivity              | <b>10<sup>13</sup></b> | Ω     | IEC 60093         |
| Comparative Tracking Index (CTI) | <b>600</b>             | V     | IEC 60112         |

### Moisture Absorption

| Egenskap                       | Värde       | Enhet | Provningsstandard |
|--------------------------------|-------------|-------|-------------------|
| Water absorption to saturation | <b>5.45</b> | %     | ISO 62            |
| Water Absorption to Saturation | <b>8.75</b> | %     | ISO 62            |

### Impact Resistance

| Egenskap                         | Värde    | Enhet | Provningsstandard |
|----------------------------------|----------|-------|-------------------|
| Notched impact strength (Charpy) | <b>6</b> | kJ/m² | ISO 179/1eA       |

### Thermal Expansion

| Egenskap                      | Värde      | Enhet               | Provningsstandard |
|-------------------------------|------------|---------------------|-------------------|
| Thermal Expansion Coefficient | <b>0.8</b> | 10 <sup>-4</sup> /K | DIN 11359         |

### Hardness

| Egenskap               | Värde      | Enhet     | Provningsstandard |
|------------------------|------------|-----------|-------------------|
| Hardness Shore D       | <b>83</b>  | ° Shore D | ISO 868           |
| Ball pressure hardness | <b>160</b> | MPa       | ISO 2039-1        |

# Godkännanden

- EU 10/2011
- FDA
- REACH
- RoHS