



# PVDF 180x1000 mm natur

Artikelnr P1010606  
Material PVDF

## Tekniska egenskaper

### Density & Weight

| Egenskap | Värde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
| Density  | 1.78  | g/cm³ | ISO1183           |

### Tensile Properties

| Egenskap                        | Värde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 40    | MPa   | ISO 527           |
| Modulus of elasticity (tensile) | 2200  | MPa   | ISO527-2          |
| Breakdown Voltage               | 46    | MPa   | ISO 527           |
| Break Elongation                | 17    | %     | ISO527-2          |

### Temperature Limits

| Egenskap                                   | Värde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 171   | °C    | ISO11357          |
| Maximal operating temperature (short-term) | 142   | °C    | UL746B            |
| Maximum Operating Temperature              | 130   | °C    | UL746B            |
| Minimum temperature                        | -26   | °C    |                   |
| Heat deflection temperature (HDT/A)        | 104   | °C    | ISO 75            |
| Heat deflection temperature (HDT/B)        | 145   | °C    | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 138   | °C    | ISO 306           |

### Insulation Properties

| Egenskap                       | Värde            | Enhet | Provningsstandard |
|--------------------------------|------------------|-------|-------------------|
| Dielectric Strength            | 27               | kV/mm | IEC 60243-1       |
| Volume Resistivity             | 10 <sup>13</sup> | Ω·cm  | IEC 60093         |
| Dielectric Constant (1 MHz)    | 7.7              | -     | IEC 60250         |
| Dielectric loss factor (1 MHz) | 0.1              | -     | IEC 60250         |

### Flexural Properties

| Egenskap          | Värde | Enhet | Provningsstandard |
|-------------------|-------|-------|-------------------|
| Flexural Strength | 62    | MPa   | ISO527-2          |

### Thermal Conductivity

| Egenskap             | Värde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.25  | W/(m·K) | DIN22007-4        |

### Static spread

| Egenskap                         | Värde            | Enhet | Provningsstandard |
|----------------------------------|------------------|-------|-------------------|
| Surface Resistivity              | 10 <sup>14</sup> | Ω     | IEC60093          |
| Comparative Tracking Index (CTI) | 600              | V     | IEC 60112         |

### Moisture Absorption

| Egenskap                       | Värde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Water absorption to saturation | 0.15  | %     | ISO62             |
| Water Absorption to Saturation | 0.35  | %     | ISO62             |

### Impact Resistance

| Egenskap                         | Värde | Enhet | Provningsstandard |
|----------------------------------|-------|-------|-------------------|
| Notched impact strength (Charpy) | 8     | kJ/m² | ISO 179           |
| Impact Resistance (Charpy)       | 150   | kJ/m² | ISO179/1eU        |

### Thermal Expansion

| Egenskap                      | Värde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 1.6   | 10 <sup>-4</sup> /K | ISO11359          |

### Hardness

| Egenskap               | Värde | Enhet     | Provningsstandard |
|------------------------|-------|-----------|-------------------|
| Hardness Shore D       | 80    | ° Shore D | ISO868            |
| Ball pressure hardness | 120   | MPa       | ISO 2039          |

## Godkännanden

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