



**PVDF 22x3000 mm svart**

Artikelnr P1010542

Kategori PVDF

## Tekniska egenskaper

## Density & Weight

| Egenskap | Värde | Enhet             | Provningsstandard |
|----------|-------|-------------------|-------------------|
| Density  | 1.78  | g/cm <sup>3</sup> | 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   | Å°C   | ISO11357          |
| Maximal operating temperature (short-term) | 142   | Å°C   | UL746B            |
| Maximum Operating Temperature              | 130   | Å°C   | UL746B            |
| Minimum temperature                        | -26   | Å°C   |                   |
| Heat deflection temperature (HDT/A)        | 104   | Å°C   | ISO 75            |
| Heat deflection temperature (HDT/B)        | 145   | Å°C   | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 138   | Å°C   | ISO 306           |

## Insulation Properties

| Egenskap | Värde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
|----------|-------|-------|-------------------|

| Egenskap                       | VÄärde              | Enhet   | Provningsstandard |
|--------------------------------|---------------------|---------|-------------------|
| Dielectric Strength            | 27                  | kV/mm   | IEC 60243-1       |
| Volume Resistivity             | 10 <sup>14</sup> Å³ | Î© Å·cm | IEC 60093         |
| Dielectric Constant (1 MHz)    | 7.7                 | -       | IEC 60250         |
| Dielectric loss factor (1 MHz) | 0.1                 | -       | IEC 60250         |

### Flexural Properties

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

### Thermal Conductivity

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

### Static spread

| Egenskap                         | VÄärde              | Enhet | Provningsstandard |
|----------------------------------|---------------------|-------|-------------------|
| Surface Resistivity              | 10 <sup>14</sup> Å´ | Î©    | IEC60093          |
| Comparative Tracking Index (CTI) | 600                 | V     | IEC 60112         |

### Moisture Absorption

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

### Impact Resistance

| Egenskap                         | VÄärde | Enhet  | Provningsstandard |
|----------------------------------|--------|--------|-------------------|
| Notched impact strength (Charpy) | 8      | kJ/mÅ² | ISO 179           |
| Impact Resistance (Charpy)       | 150    | kJ/mÅ² | ISO179/1eU        |

### Thermal Expansion

| Egenskap                      | VÄärde | Enhet                 | Provningsstandard |
|-------------------------------|--------|-----------------------|-------------------|
| Thermal Expansion Coefficient | 1.6    | 10 <sup>-6</sup> Å´/K | ISO11359          |

### Hardness

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

# Godkännanden

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