



# PVC U 50x2000 mm r d

Artikelnr P1201139

Material PVC

## Tekniska egenskaper

### Density & Weight

| Egenskap | V rde | Enhet  | Provningsstandard |
|----------|-------|--------|-------------------|
| Density  | 1.53  | g/cm 3 | ASTM D792         |

### Tensile Properties

| Egenskap                        | V rde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 48.8  | MPa   | ASTM D638         |
| Modulus of elasticity (tensile) | 2669  | MPa   | ASTM D638         |
| Breakdown Voltage               | 40    | MPa   | ISO 527           |
| Break Elongation                | 14    | %     | ISO 527           |

### Temperature Limits

| Egenskap                                   | V rde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 189.2 |  C    | ASTM D3418        |
| Maximal operating temperature (short-term) | 93.3  |  C    | UL 746B           |
| Maximum Operating Temperature              | 60    |  C    |                   |
| Minimum temperature                        | -15   |  C    | UL 746B           |
| Heat deflection temperature (HDT/A)        | 106.7 |  C    | ASTM D648         |
| Vicat softening temperature (VST/B/50)     | 75    |  C    | ISO 306           |

### Insulation Properties

| Egenskap | V rde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
|----------|-------|-------|-------------------|

| Egenskap                       | Värde            | Enhet | Provningsstandard |
|--------------------------------|------------------|-------|-------------------|
| Dielectric Strength            | 40               | kV/mm | IEC 60243-1       |
| Volume Resistivity             | 10 <sup>15</sup> | Ω·cm  | DIN EN 62631-3-1  |
| Dielectric Constant (1 MHz)    | 3.1              | -     | IEC 60250         |
| Dielectric Constant (100 Hz)   | 3.2              | -     | IEC 60250         |
| Dielectric loss factor (1 MHz) | 0.0              | -     | IEC 60250         |

Flexural Properties

| Egenskap          | Värde | Enhet | Provningsstandard |
|-------------------|-------|-------|-------------------|
| Flexural Strength | 73.1  | MPa   | ASTM D790         |

Thermal Conductivity

| Egenskap             | Värde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.14  | W/(m·K) | ISO 22007-4       |

Static spread

| Egenskap                         | Värde            | Enhet | Provningsstandard |
|----------------------------------|------------------|-------|-------------------|
| Surface Resistivity              | 10 <sup>13</sup> | Ω     | DIN EN 62631-3-2  |
| Comparative Tracking Index (CTI) | 600              | V     | IEC 60112         |

Moisture Absorption

| Egenskap                       | Värde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Water absorption to saturation | 0.5   | %     | ASTM D570         |
| Water Absorption to Saturation | 0.5   | %     | ASTM D570         |

Impact Resistance

| Egenskap                         | Värde | Enhet | Provningsstandard |
|----------------------------------|-------|-------|-------------------|
| Notched impact strength (Charpy) | 4     | kJ/m² | ISO 179           |
| Impact Resistance (Charpy)       | 550   | kJ/m² | DIN EN ISO 8256   |

Thermal Expansion

| Egenskap                      | Värde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 1.03  | 10 <sup>-4</sup> /K | ASTM D696         |

Hardness

| Egenskap         | Värde | Enhet     | Provningsstandard |
|------------------|-------|-----------|-------------------|
| Hardness Shore D | 85    | ° Shore D | ASTM D2240        |

| Egenskap               | Värde | Enhet | Provningsstandard |
|------------------------|-------|-------|-------------------|
| Ball pressure hardness | 100   | MPa   | ISO 2039          |

## Godkännanden

- REACH
- RoHS
- UL 94