



**PE-1000 4000x2000x70 mm natur**

Artikelnr P1400561

| Kategori | PE |
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## Tekniska egenskaper

## Density & Weight

| Egenskap | Värde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
| Density  | 0.95  | g/cm³ | ISO 1183          |

## Tensile Properties

| Egenskap                        | Värde | Enhet | Provningsstandard  |
|---------------------------------|-------|-------|--------------------|
| Tensile Strength                | 17    | MPa   | ISO 527            |
| Modulus of elasticity (tensile) | 800   | MPa   | DIN EN ISO 527-1/2 |
| Breakdown Voltage               | 40    | MPa   | ISO 527            |
| Break Elongation                | 200   | %     | ISO 527            |

## Temperature Limits

| Egenskap                                   | VÄrde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 135   | Å°C   | ISO 3146          |
| Maximal operating temperature (short-term) | 100   | Å°C   |                   |
| Maximum Operating Temperature              | 64    | Å°C   |                   |
| Minimum temperature                        | -214  | Å°C   | UL746B            |
| Heat deflection temperature (HDT/A)        | 42    | Å°C   | ISO 75            |
| Heat deflection temperature (HDT/B)        | 65    | Å°C   | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 79    | Å°C   | DIN EN ISO 306    |

## Insulation Properties

| Egenskap | VÄrde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
|----------|-------|-------|-------------------|

| Egenskap                        | VÄrde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Dielectric Strength             | 45    | kV/mm | IEC 60243-1       |
| Volume Resistivity              | 1     | Ω·m   | IEC 60093         |
| Dielectric Constant (1 MHz)     | 2.3   | -     | IEC 60250         |
| Dielectric Constant (100 Hz)    | 2.55  | -     | 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 | 17    | MPa   | ISO 527-2         |

#### Thermal Conductivity

| Egenskap             | VÄrde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.4   | W/(m·K) | DIN 52612         |

#### Static spread

| Egenskap                         | VÄrde               | Enhet | Provningsstandard |
|----------------------------------|---------------------|-------|-------------------|
| Surface Resistivity              | 10 <sup>11</sup> Ω² | Ω/□   | IEC 60093         |
| Comparative Tracking Index (CTI) | 600                 | V     | IEC 60112         |

#### Moisture Absorption

| Egenskap                       | VÄrde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Water absorption to saturation | 0.01  | %     |                   |
| Water Absorption to Saturation | 0.01  | %     | ISO 62            |

#### Impact Resistance

| Egenskap                         | VÄrde | Enhet | Provningsstandard  |
|----------------------------------|-------|-------|--------------------|
| Notched impact strength (Charpy) | 80    | kJ/m² | ISO 11542-2        |
| Impact Resistance (Charpy)       | 80    | kJ/m² | DIN EN ISO 179-1/2 |

#### Thermal Expansion

| Egenskap | VÄrde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
|----------|-------|-------|-------------------|

| Egenskap                      | V rde | Enhet   | Provningsstandard |
|-------------------------------|-------|---------|-------------------|
| Thermal Expansion Coefficient | 2     | 10   /K | ISO 11359         |

Hardness

| Egenskap               | V rde | Enhet      | Provningsstandard |
|------------------------|-------|------------|-------------------|
| Hardness Shore D       | 60    |    Shore D | shore D           |
| Ball pressure hardness | 34    | MPa        | ISO 2039-1        |

Compressive Properties

| Egenskap                       | V rde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Creep Voltage at 1% Elongation | 24    | MPa   | ISO 178           |

Godk nnanden

- EU 10/2011
- FDA
- REACH
- RoHS