



# PE-HD 3000x1500x5 mm natur

Artikelnr P1200470  
Material PE

## Tekniska egenskaper

### Density & Weight

| Egenskap | Värde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
| Density  | 0.96  | g/cm³ | ISO 1183          |

### Tensile Properties

| Egenskap                        | Värde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 20    | MPa   | ISO 527           |
| Modulus of elasticity (tensile) | 1200  | MPa   | ISO 527           |
| Breakdown Voltage               | 13    | MPa   | ISO 527           |
| Break Elongation                | 200   | %     | ISO 527           |

### Temperature Limits

| Egenskap                                   | Värde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 135   | °C    | ISO 3146          |
| Maximal operating temperature (short-term) | 95    | °C    | UL746B            |
| Maximum Operating Temperature              | 76    | °C    |                   |
| Minimum temperature                        | -51   | °C    |                   |
| Heat deflection temperature (HDT/A)        | 45    | °C    | ISO 75-2          |
| Heat deflection temperature (HDT/B)        | 69    | °C    | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 79    | °C    | ISO 306           |

### Insulation Properties

| Egenskap                        | Värde            | Enhet | Provningsstandard |
|---------------------------------|------------------|-------|-------------------|
| Dielectric Strength             | 45               | kV/mm | IEC 60243-1       |
| Volume Resistivity              | 10 <sup>12</sup> | Ω·cm  | EN 61340-5-1      |
| Dielectric Constant (1 MHz)     | 2.4              | -     | IEC 60250         |
| Dielectric Constant (100 Hz)    | 2.3              | -     | IEC 60250         |
| Dielectric loss factor (1 MHz)  | 0.0              | -     | IEC 60250         |
| Dielectric loss factor (100 Hz) | 0.0              | -     | IEC 60250         |

Flexural Properties

| Egenskap          | Värde | Enhet | Provningsstandard |
|-------------------|-------|-------|-------------------|
| Flexural Strength | 20    | MPa   | ISO527-2          |

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>13</sup> | Ω     | EN 61340-5-1      |
| Comparative Tracking Index (CTI) | 600              | V     | IEC 60112         |

Moisture Absorption

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

Impact Resistance

| Egenskap                         | Värde | Enhet | Provningsstandard |
|----------------------------------|-------|-------|-------------------|
| Notched impact strength (Charpy) | 7.5   | kJ/m² | ISO 179/1eA       |
| Impact Resistance (Charpy)       | 15    | kJ/m² | ISO 179/1eU       |

Thermal Expansion

| Egenskap                      | Värde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 2     | 10 <sup>-4</sup> /K | ISO 11359         |

Hardness

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

| Egenskap               | Värde | Enhet     | Provningsstandard |
|------------------------|-------|-----------|-------------------|
| Hardness Shore D       | 60    | ° Shore D | shore D           |
| Ball pressure hardness | 50    | MPa       | ISO 2039-1        |

## Godkännanden

- EU 10/2011
- FDA
- REACH
- RoHS