



# PET 3000x610x16 mm natur

Artikelnr P1003843  
Material PET

## Tekniska egenskaper

### Density & Weight

| Egenskap | Värde | Enhet | Provningsstandard |
|----------|-------|-------|-------------------|
| Density  | 1.46  | g/cm³ | ISO 1183          |

### Tensile Properties

| Egenskap                        | Värde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 52    | MPa   | ISO 527           |
| Modulus of elasticity (tensile) | 3400  | MPa   | ISO 527-2         |
| Breakdown Voltage               | 58    | MPa   | ISO 527           |
| Break Elongation                | 5     | %     | ISO 527-2         |

### Temperature Limits

| Egenskap                                   | Värde  | Enhet | Provningsstandard |
|--------------------------------------------|--------|-------|-------------------|
| Melting point                              | 224    | °C    | ISO 3146          |
| Maximal operating temperature (short-term) | 138.75 | °C    | UL746B            |
| Maximum Operating Temperature              | 97     | °C    |                   |
| Minimum temperature                        | -25    | °C    |                   |
| Heat deflection temperature (HDT/A)        | 85     | °C    | ISO 75            |
| Heat deflection temperature (HDT/B)        | 100    | °C    | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 219    | °C    | ISO 306           |

### Insulation Properties

| Egenskap                        | Värde            | Enhet | Provningsstandard |
|---------------------------------|------------------|-------|-------------------|
| Dielectric Strength             | 22               | kV/mm | IEC 60243-1       |
| Volume Resistivity              | 10 <sup>18</sup> | Ω·cm  | DIN EN 62631-3-1  |
| Dielectric Constant (1 MHz)     | 3.3              | -     | 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 | 75.25 | MPa   | ISO 178           |

Thermal Conductivity

| Egenskap             | Värde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.33  | W/(m·K) | DIN 52612         |

Static spread

| Egenskap                         | Värde            | Enhet | Provningsstandard |
|----------------------------------|------------------|-------|-------------------|
| Surface Resistivity              | 10 <sup>14</sup> | Ω     | IEC 60093         |
| Comparative Tracking Index (CTI) | 600              | V     | IEC 60112         |

Moisture Absorption

| Egenskap                       | Värde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Water absorption to saturation | 0.02  | %     | ISO 62            |
| Water Absorption to Saturation | 0.02  | %     | ISO 62            |

Impact Resistance

| Egenskap                         | Värde | Enhet | Provningsstandard |
|----------------------------------|-------|-------|-------------------|
| Notched impact strength (Charpy) | 90    | kJ/m² | ISO 180           |
| Impact Resistance (Charpy)       | 37    | kJ/m² | ISO 179/1eU       |

Thermal Expansion

| Egenskap                      | Värde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 0.8   | 10 <sup>-4</sup> /K | DIN 11359         |

Hardness

| Egenskap         | Värde | Enhet     | Provningsstandard |
|------------------|-------|-----------|-------------------|
| Hardness Shore D | 77    | ° Shore D | ISO 868           |

| Egenskap               | Värde | Enhet   | Provningsstandard |
|------------------------|-------|---------|-------------------|
| Rockwell hardness      | 112   | M-scale |                   |
| Ball pressure hardness | 166   | MPa     | ISO 2039          |

## Godkännanden

- EU 10/2011
- FDA
- REACH
- RoHS