



**PET 2000x1000x25 mm natur**

Artikelnr P1003829

Kategori      PET

## Tekniska egenskaper

### Density & Weight

| Egenskap | Värde | Enhet             | Provningsstandard |
|----------|-------|-------------------|-------------------|
| Density  | 1.46  | g/cm <sup>3</sup> | 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    | Å°C   | ISO 3146          |
| Maximal operating temperature (short-term) | 138.75 | Å°C   | UL746B            |
| Maximum Operating Temperature              | 97     | Å°C   |                   |
| Minimum temperature                        | -25    | Å°C   |                   |
| Heat deflection temperature (HDT/A)        | 85     | Å°C   | ISO 75            |
| Heat deflection temperature (HDT/B)        | 100    | Å°C   | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 219    | Å°C   | ISO 306           |

## Insulation Properties

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

| Egenskap                        | VÄärde                | Enhet | Provningsstandard |
|---------------------------------|-----------------------|-------|-------------------|
| Dielectric Strength             | 22                    | kV/mm | IEC 60243-1       |
| Volume Resistivity              | 10 <sup>14</sup> Ω·cm | 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          | VÄärde | Enhet | Provningsstandard |
|-------------------|--------|-------|-------------------|
| Flexural Strength | 75.25  | MPa   | ISO 178           |

### Thermal Conductivity

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

### Static spread

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

### Moisture Absorption

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

### Impact Resistance

| Egenskap                         | VÄärde | Enhet             | Provningsstandard |
|----------------------------------|--------|-------------------|-------------------|
| Notched impact strength (Charpy) | 90     | kJ/m <sup>2</sup> | ISO 180           |
| Impact Resistance (Charpy)       | 37     | kJ/m <sup>2</sup> | ISO 179/1eU       |

### Thermal Expansion

| Egenskap                      | VÄärde | Enhet               | Provningsstandard |
|-------------------------------|--------|---------------------|-------------------|
| Thermal Expansion Coefficient | 0.8    | 10 <sup>-6</sup> /K | DIN 11359         |

### Hardness

| Egenskap         | VÄärde | Enhet      | Provningsstandard |
|------------------|--------|------------|-------------------|
| Hardness Shore D | 77     | Å° 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