



## PMMA E 2050x1520x4 mm transparent 92%

Artikelnr P1200665

Material PMMA

### Tekniska egenskaper

#### Density & Weight

| Egenskap | Värde | Enhet             | Provningsstandard |
|----------|-------|-------------------|-------------------|
| Density  | 1.19  | g/cm <sup>3</sup> | ISO 1183          |

#### Tensile Properties

| Egenskap                        | Värde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 72    | MPa   | ISO 527           |
| Modulus of elasticity (tensile) | 3300  | MPa   | ISO 527-2         |
| Breakdown Voltage               | 70    | MPa   | ISO 527-2         |
| Break Elongation                | 5     | %     | ISO 527-2         |

#### Temperature Limits

| Egenskap                                   | Värde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 160   | °C    | ISO 3146          |
| Maximal operating temperature (short-term) | 107.5 | °C    | UL746B            |
| Maximum Operating Temperature              | 75    | °C    |                   |
| Minimum temperature                        | -40   | °C    |                   |
| Heat deflection temperature (HDT/A)        | 95    | °C    | ISO 75            |
| Heat deflection temperature (HDT/B)        | 100   | °C    | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 103   | °C    | ISO 306           |

#### Insulation Properties

| Egenskap                        | Värde            | Enhet | Provningsstandard |
|---------------------------------|------------------|-------|-------------------|
| Dielectric Strength             | 30               | kV/mm | IEC 60243-1       |
| Volume Resistivity              | 10 <sup>15</sup> | Ω·cm  | IEC 60093         |
| Dielectric Constant (1 MHz)     | 1                | -     | IEC 60250         |
| Dielectric Constant (100 Hz)    | 2.7              | -     | DIN 53483-2       |
| Dielectric loss factor (1 MHz)  | 0.03             | -     | IEC 60250         |
| Dielectric loss factor (100 Hz) | 0.06             | -     | DIN 53483-2       |

Flexural Properties

| Egenskap          | Värde | Enhet | Provningsstandard |
|-------------------|-------|-------|-------------------|
| Flexural Strength | 75    | MPa   | ISO 527-2         |

Thermal Conductivity

| Egenskap             | Värde | Enhet   | Provningsstandard |
|----------------------|-------|---------|-------------------|
| Thermal Conductivity | 0.19  | W/(m·K) | DIN 52612         |

Static spread

| Egenskap                         | Värde            | Enhet | Provningsstandard |
|----------------------------------|------------------|-------|-------------------|
| Surface Resistivity              | 10 <sup>13</sup> | Ω     | IEC 60093         |
| Comparative Tracking Index (CTI) | 600              | V     | IEC 60112         |

Moisture Absorption

| Egenskap                       | Värde | Enhet | Provningsstandard |
|--------------------------------|-------|-------|-------------------|
| Water absorption to saturation | 2.1   | %     | ISO 62            |
| Water Absorption to Saturation | 2.1   | %     | ISO 62            |

Impact Resistance

| Egenskap                         | Värde | Enhet | Provningsstandard |
|----------------------------------|-------|-------|-------------------|
| Notched impact strength (Charpy) | 1.6   | kJ/m² | ISO 179/1eA       |
| Impact Resistance (Charpy)       | 15    | kJ/m² | ISO 179/1eU       |

Thermal Expansion

| Egenskap                      | Värde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 0.0   | 10 <sup>-4</sup> /K | DIN 11359         |

Hardness

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

| Egenskap               | Värde | Enhet     | Provningsstandard |
|------------------------|-------|-----------|-------------------|
| Hardness Shore D       | 15    | ° Shore D |                   |
| Rockwell hardness      | 100   | M-scale   | ISO 2039-2        |
| Ball pressure hardness | 175   | MPa       | ISO 2039-1        |

## Godkännanden

- REACH
- RoHS