



## PA12 120x1000 mm natur

Artikelnr P1000312

Material PA

### Tekniska egenskaper

#### Density & Weight

| Egenskap | Värde | Enhet             | Provningsstandard |
|----------|-------|-------------------|-------------------|
| Density  | 1.04  | g/cm <sup>3</sup> |                   |

#### Tensile Properties

| Egenskap                        | Värde | Enhet | Provningsstandard |
|---------------------------------|-------|-------|-------------------|
| Tensile Strength                | 66    | MPa   | ISO 527           |
| Modulus of elasticity (tensile) | 1470  | MPa   | ISO 527           |
| Breakdown Voltage               | 45    | MPa   | ISO 527           |
| Break Elongation                | 50    | %     | ISO 527           |

#### Temperature Limits

| Egenskap                                   | Värde | Enhet | Provningsstandard |
|--------------------------------------------|-------|-------|-------------------|
| Melting point                              | 180   | °C    | DIN EN ISO 11357  |
| Maximal operating temperature (short-term) | 133   | °C    | UL746B            |
| Maximum Operating Temperature              | 110   | °C    |                   |
| Heat deflection temperature (HDT/A)        | 115   | °C    | ISO 75            |
| Heat deflection temperature (HDT/B)        | 135   | °C    | ISO 75            |
| Vicat softening temperature (VST/B/50)     | 50    | °C    | ISO 306           |

#### Insulation Properties

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

| Egenskap                       | Värde            | Enhet | Provningsstandard |
|--------------------------------|------------------|-------|-------------------|
| Dielectric Strength            | 34               | kV/mm | IEC 60243-1       |
| Volume Resistivity             | 10 <sup>11</sup> | Ω     | IEC 60093         |
| Dielectric Constant (1 MHz)    | 1                | -     | IEC 60250         |
| Dielectric loss factor (1 MHz) | 1                | -     | IEC 60250         |

Fire Classification

| Egenskap                            | Värde | Enhet | Provningsstandard |
|-------------------------------------|-------|-------|-------------------|
| Flammability Classification (UL 94) | 60695 |       | UL 94             |

Flexural Properties

| Egenskap          | Värde | Enhet | Provningsstandard |
|-------------------|-------|-------|-------------------|
| Flexural Strength | 53    | MPa   | DIN EN ISO 527-2  |

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 | 3     | %     | ISO 62            |
| Water Absorption to Saturation | 3     | %     | ISO 62            |

Impact Resistance

| Egenskap                         | Värde | Enhet | Provningsstandard |
|----------------------------------|-------|-------|-------------------|
| Notched impact strength (Charpy) | 7     | kJ/m² | DIN EN ISO 179-1  |

Thermal Expansion

| Egenskap                      | Värde | Enhet               | Provningsstandard |
|-------------------------------|-------|---------------------|-------------------|
| Thermal Expansion Coefficient | 0.9   | 10 <sup>-4</sup> /K | ISO 11359         |

Hardness

| Egenskap               | Värde | Enhet     | Provningsstandard |
|------------------------|-------|-----------|-------------------|
| Hardness Shore D       | 83    | ° Shore D | ISO 868           |
| Ball pressure hardness | 90    | MPa       | ISO 2039          |

Godkännanden

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