



PA6 E FG 1000x610x30 mm natur

Artikelnr P1001317

Material PA

Tekniska egenskaper

Density & Weight

| Egenskap | Värde | Enhet | Provningsstandard |
|----------|-------------|-------------------|-------------------|
| Density | 1.14 | g/cm ³ | ISO 1183 |
| Density | 1.13 | g/cm ³ | ISO 1183 |

Tensile Properties

| Egenskap | Värde | Enhet | Provningsstandard |
|---------------------------------|-------------|-------|-------------------|
| Tensile Strength | 70 | MPa | DIN EN ISO 527 |
| Tensile Strength | 83 | MPa | ISO 527 |
| Modulus of elasticity (tensile) | 3250 | MPa | ISO 527-2 |
| Modulus of elasticity (tensile) | 3330 | MPa | ISO 527 |
| Breakdown Voltage | 75 | MPa | ISO 527-2 |
| Breakdown Voltage | 54 | MPa | ISO 527 |
| Break Elongation | 40 | % | ISO 527-2 |
| Break Elongation | 50 | % | ISO 527 |

Temperature Limits

| Egenskap | Värde | Enhet | Provningsstandard |
|--|------------|-------|-------------------|
| Melting point | 220 | °C | ISO 3146 |
| Melting point | 220 | °C | ISO 3146 |
| Maximal operating temperature (short-term) | 160 | °C | |
| Maximal operating temperature (short-term) | 130 | °C | UL746B |

| Egenskap | Värde | Enhet | Provningsstandard |
|--|-------------|-------|-------------------|
| Maximum Operating Temperature | 90.5 | °C | |
| Maximum Operating Temperature | 85 | °C | |
| Minimum temperature | -36 | °C | |
| Minimum temperature | -40 | °C | |
| Heat deflection temperature (HDT/A) | 70 | °C | ISO 75-2 |
| Heat deflection temperature (HDT/A) | 75 | °C | ISO 75-2 |
| Heat deflection temperature (HDT/B) | 140 | °C | ISO 75-2 |
| Heat deflection temperature (HDT/B) | 190 | °C | ISO 75-2 |
| Vicat softening temperature (VST/B/50) | 190 | °C | ISO 306 |

Insulation Properties

| Egenskap | Värde | Enhet | Provningsstandard |
|---------------------------------|------------------------|-------|-------------------|
| Dielectric Strength | 30 | kV/mm | IEC 60243-1 |
| Dielectric Strength | 25 | kV/mm | IEC 60243-1 |
| Volume Resistivity | 10¹³ | Ω·cm | IEC 60093 |
| Volume Resistivity | 10¹² | Ω·cm | IEC 60093 |
| Dielectric Constant (1 MHz) | 3.8 | - | IEC 60250 |
| Dielectric Constant (1 MHz) | 3.7 | - | IEC 60250 |
| Dielectric loss factor (1 MHz) | 0.03 | - | IEC 60250 |
| Dielectric Constant (100 Hz) | 3.9 | - | IEC 60250 |
| Dielectric loss factor (1 MHz) | 0.0 | - | IEC 60250 |
| Dielectric loss factor (100 Hz) | 0.0 | - | IEC 60250 |

Fire Classification

| Egenskap | Värde | Enhet | Provningsstandard |
|-------------------------------------|----------|-------|-------------------|
| Flammability Classification (UL 94) | 3 | | UL 94 |

Flexural Properties

| Egenskap | Värde | Enhet | Provningsstandard |
|-------------------|------------|-------|-------------------|
| Flexural Strength | 76 | MPa | ISO 527-2 |
| Flexural Strength | 100 | MPa | ISO 178 |

Thermal Conductivity

| Egenskap | Värde | Enhet | Provningsstandard |
|----------------------|-------------|---------|-------------------|
| Thermal Conductivity | 0.32 | W/(m·K) | DIN 52612 |

| Egenskap | Värde | Enhet | Provningsstandard |
|----------------------|-------------|---------|-------------------|
| Thermal Conductivity | 0.28 | W/(m·K) | DIN 52612 |

Static spread

| Egenskap | Värde | Enhet | Provningsstandard |
|----------------------------------|------------------------|-------|-------------------|
| Surface Resistivity | 10¹³ | Ω | IEC 60093 |
| Comparative Tracking Index (CTI) | 600 | V | IEC 60112 |
| Surface Resistivity | 10¹³ | Ω | IEC 60093 |
| Comparative Tracking Index (CTI) | 600 | V | IEC 60112 |

Moisture Absorption

| Egenskap | Värde | Enhet | Provningsstandard |
|--------------------------------|------------|-------|-------------------|
| Water absorption to saturation | 2.5 | % | ISO 62 |
| Water absorption to saturation | 9.5 | % | ISO 62 |
| Water Absorption to Saturation | 9 | % | ISO 62 |
| Water Absorption to Saturation | 9.5 | % | ISO 62 |

Impact Resistance

| Egenskap | Värde | Enhet | Provningsstandard |
|----------------------------------|------------|-------------------|-------------------|
| Notched impact strength (Charpy) | 5.5 | kJ/m ² | ISO 179/1eA |
| Notched impact strength (Charpy) | 7 | kJ/m ² | ISO 179 |

Thermal Expansion

| Egenskap | Värde | Enhet | Provningsstandard |
|-------------------------------|------------|---------------------|-------------------|
| Thermal Expansion Coefficient | 1.1 | 10 ⁻⁴ /K | ISO 11359 |
| Thermal Expansion Coefficient | 0.9 | 10 ⁻⁴ /K | ISO 11359 |

Hardness

| Egenskap | Värde | Enhet | Provningsstandard |
|------------------------|------------|-----------|-------------------|
| Hardness Shore D | 82 | ° Shore D | DIN EN ISO 868 |
| Hardness Shore D | 80 | ° Shore D | ISO 868 |
| Ball pressure hardness | 150 | MPa | ISO 2039-1 |
| Ball pressure hardness | 155 | MPa | ISO 2039 |

Godkännanden

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