



PP-H 4120x2010x110 mm grey

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| Article No. | P2201458 |
| Category | PP |

Technical Properties

Density & Weight

| Property | Value | Unit | Test standard |
|----------|-------|-------------------|---------------|
| Density | 0.91 | g/cm ³ | ISO 1183 |

Moisture Absorption

| Property | Value | Unit | Test standard |
|--------------------------------|-------|------|---------------|
| Water absorption to saturation | 0.2 | % | ISO 62 |
| Water Absorption to Saturation | 0.2 | % | ISO 62 |

Tensile Properties

| Property | Value | Unit | Test standard |
|---------------------------------|-------|------|---------------|
| Tensile Strength | 36 | MPa | ISO 527 |
| Modulus of elasticity (tensile) | 1700 | MPa | ISO 527-2 |
| Breakdown Voltage | 30 | MPa | ISO 527 |
| Break Elongation | 8 | % | ISO 527-2 |

Flexural Properties

| Property | Value | Unit | Test standard |
|-------------------|-------|------|------------------|
| Flexural Strength | 37 | MPa | DIN EN ISO 527-2 |

Impact Resistance

| Property | Value | Unit | Test standard |
|----------|-------|------|---------------|
|----------|-------|------|---------------|

| Property | Value | Unit | Test standard |
|----------------------------------|-------|-------------------|---------------|
| Notched impact strength (Charpy) | 9 | kJ/m ² | ISO 179/1eA |
| Impact Resistance (Charpy) | 7.7 | kJ/m ² | ISO 179 |

Hardness

| Property | Value | Unit | Test standard |
|------------------------|-------|-----------|---------------|
| Hardness Shore D | 72 | ° Shore D | ISO 868 |
| Ball pressure hardness | 110 | MPa | ISO 2039 |

Temperature Limits

| Property | Value | Unit | Test standard |
|--|-------|------|------------------|
| Melting point | 161 | °C | DIN EN ISO 11357 |
| Maximal operating temperature (short-term) | 127 | °C | UL746B |
| Maximum Operating Temperature | 80 | °C | |
| Minimum temperature | -7 | °C | |
| Heat deflection temperature (HDT/A) | 54 | °C | ISO 75 |
| Heat deflection temperature (HDT/B) | 90 | °C | ISO 75 |
| Vicat softening temperature (VST/B/50) | 50 | °C | ISO 306 |

Thermal Conductivity

| Property | Value | Unit | Test standard |
|----------------------|-------|---------|---------------|
| Thermal Conductivity | 0.27 | W/(m·K) | ISO 22007-4 |

Thermal Expansion

| Property | Value | Unit | Test standard |
|-------------------------------|-------|---------------------|---------------|
| Thermal Expansion Coefficient | 1.6 | 10 ⁻⁴ /K | ISO 11359-2 |

Insulation Properties

| Property | Value | Unit | Test standard |
|---------------------------------|------------------|-------|------------------|
| Dielectric Strength | 40 | kV/mm | IEC 60243-1 |
| Volume Resistivity | 10 ¹⁴ | Ω | DIN EN 62631-3-1 |
| Dielectric Constant (1 MHz) | 2.4 | - | IEC 60250 |
| Dielectric loss factor (1 MHz) | 13.4 | - | IEC 60250 |
| Dielectric loss factor (100 Hz) | 0.0 | - | IEC 60250 |

Static spread

| Property | Value | Unit | Test standard |
|----------------------------------|------------------|------|---------------|
| Surface Resistivity | 10 ¹³ | Ω | IEC 60093 |
| Comparative Tracking Index (CTI) | 600 | V | IEC 60112 |

Fire Classification

| Property | Value | Unit | Test standard |
|-------------------------------------|-------|------|---------------|
| Flammability Classification (UL 94) | 60695 | | UL 94 |