

Product Texts

- MVR (300 °C/1.2 kg) 19 cm³/10 min
- flame retardant
- UL 94V-0/1.5 mm
- low viscosity
- UV stabilized
- easy release

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|-------|-----------|-----------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 19 | cm³/10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| ^[C] Molding shrinkage, parallel | 0.7 | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 0.7 | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 2450 | MPa | ISO 527 |
| ^[C] Yield stress | 67 | MPa | ISO 527 |
| ^[C] Yield strain | 6 | % | ISO 527 |
| ^[C] Nominal strain at break | >50 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | N | kJ/m² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | N | kJ/m² | ISO 179/1eU |
| ^[C] Puncture - maximum force, +23°C | 5000 | N | ISO 6603-2 |
| ^[C] Puncture - maximum force, -30°C | 5900 | N | ISO 6603-2 |
| ^[C] Puncture energy, +23°C | 50 | J | ISO 6603-2 |
| ^[C] Puncture energy, -30°C | 55 | J | ISO 6603-2 |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|-----------------|
| ISO Data | | | |
| ^[C] Temp. of deflection under load, 1.80 MPa | 122 | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 134 | °C | ISO 75-1/-2 |
| ^[C] Vicat softening temperature, B | 144 | °C | ISO 306 |
| ^[C] Coeff. of linear therm. expansion, parallel | 65 | E-6/K | ISO 11359-1/-2 |
| ^[C] Coeff. of linear therm. expansion, normal | 65 | E-6/K | ISO 11359-1/-2 |
| ^[C] Burning Behav. at 1.5 mm nom. thickn. | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| ^[C] Oxygen index | 36 | % | ISO 4589-1/-2 |

[C]: CAMPUS

| Electrical properties | Value | Unit | Test Standard |
|---|-------|-------|---------------|
| ISO Data | | | |
| ^[C] Relative permittivity, 100Hz | 3.1 | - | IEC 62631-2-1 |
| ^[C] Relative permittivity, 1MHz | 3 | - | IEC 62631-2-1 |
| ^[C] Dissipation factor, 100Hz | 8 | E-4 | IEC 62631-2-1 |
| ^[C] Dissipation factor, 1MHz | 90 | E-4 | IEC 62631-2-1 |
| ^[C] Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| ^[C] Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |
| ^[C] Electric strength | 34 | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | 225 | - | IEC 60112 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------------------------|-------|------|----------------|
| ^[C] Water absorption | 0.3 | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 0.12 | % | Sim. to ISO 62 |

| | | | |
|------------------------|-------------|-------------------|----------|
| ^[C] Density | 1200 | kg/m ³ | ISO 1183 |
|------------------------|-------------|-------------------|----------|

[C]: CAMPUS

| Test specimen production | Value | Unit | Test Standard |
|--|------------|------|---------------|
| ISO Data | | | |
| ^[C] Injection Molding, melt temperature | 280 | °C | ISO 294 |
| Injection Molding, mold temperature | 80 | °C | ISO 294 |
| Injection Molding, injection velocity | 200 | mm/s | ISO 294 |

[C]: CAMPUS

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|------------------|------|---------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 2 - 3 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 280 - 320 | °C | - |
| Mold temperature | 80 - 100 | °C | - |

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Flame retardant, Light stabilized or stable to light, U.V. stabilized or stable to weather

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING

Max. Water content: 0.01 - 0.02 %

Drying temperature: 120 °C

Drying time:

Circulating air drying oven (50 % fresh air) 4-8 h

Fresh air dryer (high speed dryer) 2-4 h

Dry air dryer 2-3 h

PROCESSING

Melt temperature: 280-320 °C

Mold temperature: 80-100 °C

Use open nozzle.