

## Product Texts

- MVR (300 °C/1.2 kg) 6.0 cm³/10 min
- 10 % glass fiber reinforced
- flame retardant
- UL 94V-0/1.5 mm and 5VA/3.0 mm
- high viscosity
- UV stabilized
- easy release

| Processing/Physical Characteristics        | Value | Unit      | Test Standard   |
|--|-------|-----------|-----------------|
| <b>ISO Data</b>                            |       |           |                 |
| <sup>[C]</sup> Melt volume-flow rate, MVR  | 6     | cm³/10min | ISO 1133        |
| Temperature                                | 300   | °C        | -               |
| Load                                       | 1.2   | kg        | -               |
| <sup>[C]</sup> Molding shrinkage, parallel | 0.6   | %         | ISO 294-4, 2577 |
| <sup>[C]</sup> Molding shrinkage, normal   | 0.5   | %         | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties                          | Value | Unit  | Test Standard |
|--|-------|-------|---------------|
| <b>ISO Data</b>                                |       |       |               |
| <sup>[C]</sup> Tensile Modulus                 | 3800  | MPa   | ISO 527       |
| <sup>[C]</sup> Stress at break                 | 45    | MPa   | ISO 527       |
| <sup>[C]</sup> Strain at break                 | 15    | %     | ISO 527       |
| <sup>[C]</sup> Charpy impact strength, +23°C   | 150   | kJ/m² | ISO 179/1eU   |
| <sup>[C]</sup> Type of failure                 | C     | -     | -             |
| <sup>[C]</sup> Puncture - maximum force, +23°C | 3900  | N     | ISO 6603-2    |
| <sup>[C]</sup> Puncture - maximum force, -30°C | 3700  | N     | ISO 6603-2    |
| <sup>[C]</sup> Puncture energy, +23°C          | 25    | J     | ISO 6603-2    |
| <sup>[C]</sup> Puncture energy, -30°C          | 15    | J     | ISO 6603-2    |

[C]: CAMPUS

| Thermal properties                                      | Value | Unit  | Test Standard   |
|---|-------|-------|-----------------|
| <b>ISO Data</b>   |       |       |                 |
| <sup>[C]</sup> Temp. of deflection under load, 1.80 MPa | 137   | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Temp. of deflection under load, 0.45 MPa | 144   | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Vicat softening temperature, B           | 144   | °C    | ISO 306         |
| <sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.    | V-0   | class | IEC 60695-11-10 |
| Thickness tested  | 1.5   | mm    | -               |
| Yellow Card available                                   | yes   | -     | -               |
| <sup>[C]</sup> Burning Behav. 5V at thickness h         | 5VA   | class | IEC 60695-11-20 |
| Thickness tested  | 3.0   | mm    | -               |
| Yellow Card available                                   | yes   | -     | -               |
| <sup>[C]</sup> Oxygen index                             | 36    | %     | ISO 4589-1/-2   |
| Glow Wire Flammability Index (GWFI)                     | 960   | °C    | IEC 60695-2-12  |
| GWFI - thickness tested (1)                             | 0.75  | mm    | -               |
| Glow Wire Flammability Index (GWFI)                     | 960   | °C    | IEC 60695-2-12  |
| GWFI - thickness tested (2)                             | 1.5   | mm    | -               |
| Glow Wire Flammability Index (GWFI)                     | 960   | °C    | IEC 60695-2-12  |
| GWFI - thickness tested (3)                             | 3     | mm    | -               |
| Glow Wire Ignition Temperature (GWIT)                   | 825   | °C    | IEC 60695-2-13  |
| GWIT - thickness tested (1)                             | 0.75  | mm    | -               |
| Glow Wire Ignition Temperature (GWIT)                   | 850   | °C    | IEC 60695-2-13  |
| GWIT - thickness tested (2)                             | 1.5   | mm    | -               |
| Glow Wire Ignition Temperature (GWIT)                   | 850   | °C    | IEC 60695-2-13  |
| GWIT - thickness tested (3)                             | 3     | mm    | -               |

[C]: CAMPUS

| Electrical properties                     | Value | Unit  | Test Standard |
|---|-------|-------|---------------|
| <b>ISO Data</b>                           |       |       |               |
| <sup>[C]</sup> Volume resistivity         | >1E13 | Ohm*m | IEC 62631-3-1 |
| <sup>[C]</sup> Surface resistivity        | >1E15 | Ohm   | IEC 62631-3-2 |
| <sup>[C]</sup> Electric strength          | 37    | kV/mm | IEC 60243-1   |
| <sup>[C]</sup> Comparative tracking index | 175   | -     | IEC 60112     |

[C]: CAMPUS

| Other properties       | Value | Unit              | Test Standard |
|------------------------|-------|-------------------|---------------|
| <sup>[C]</sup> Density | 1270  | kg/m <sup>3</sup> | ISO 1183      |

[C]: CAMPUS

| Test specimen production                           | Value | Unit | Test Standard |
|--|-------|------|---------------|
| <b>ISO Data</b>                                    |       |      |               |
| <sup>[C]</sup> Injection Molding, melt temperature | 300   | °C   | ISO 294       |
| Injection Molding, mold temperature                | 110   | °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    | -             |
| Melt temperature                            | 280 - 320 | °C   | -             |
| Mold temperature                            | 110       | °C   | -             |

## Characteristics

### Processing

Injection Molding

### Additives

Release agent

### Special Characteristics

Flame retardant, U.V. stabilized or stable to weather, Opaque

### Regional Availability

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