

Witcom PEI/6G/3L1

(PEI+PTFE)-GF30

Wittenburg B.V.

Product Texts

15% PTFE

Processing/Physical Characteristics

| | Value | Unit | Test Standard |
|-----------------------------|-------|------|-----------------|
| ISO Data | | | |
| Molding shrinkage, parallel | 0.3 | % | ISO 294-4, 2577 |

Mechanical properties

| | Value | Unit | Test Standard |
|-------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Strength | 165 | MPa | ISO 527 |
| Strain at break | 2 | % | ISO 527 |
| Flexural modulus, 23°C | 8500 | MPa | ISO 178 |
| Flexural strength | 210 | MPa | ISO 178 |
| Izod impact strength, +23°C | 30 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C | 10 | kJ/m ² | ISO 180/1A |

Thermal properties

| | Value | Unit | Test Standard |
|---------------------------------------------|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 210 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 21 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | - |
| Glow Wire Flammability Index (GWFI) | 960 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | 1.6 | mm | - |
| Glow Wire Ignition Temperature (GWIT) | 960 | °C | IEC 60695-2-13 |
| GWIT - thickness tested (1) | 1.6 | mm | - |

Electrical properties

| | Value | Unit | Test Standard |
|----------------------------|-------|------|---------------|
| ISO Data | | | |
| Comparative tracking index | 150 | - | IEC 60112 |
| ASTM Data | | | |
| Surface Resistivity | 1E15 | Ohm | ASTM D 257 |

Other properties

| | Value | Unit | Test Standard |
|---------------------|-------|-------------------|----------------|
| Water absorption | 0.8 | % | Sim. to ISO 62 |
| Humidity absorption | 0.4 | % | Sim. to ISO 62 |
| Density | 1610 | kg/m ³ | ISO 1183 |

Processing Recommendation Injection Molding

| | Value | Unit | Test Standard |
|--------------------------|-----------|------|---------------|
| Pre-drying - Temperature | 150 | °C | - |
| Pre-drying - Time | 4 - 6 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 370 - 410 | °C | - |
| Mold temperature | 140 - 180 | °C | - |
| Back pressure | 0 - 1 | MPa | - |

Characteristics**Processing**

Injection Molding

Additives

Lubricants

Regional Availability

Europe