

**Product Texts**

30% Glass Reinforced, Flame Retardant

ISO 1043 PBT-GF30 FR(17)

| Processing/Physical Characteristics         | Value   | Unit              | Test Standard |
|---|---------|-------------------|---------------|
| <b>ISO Data</b>                             |         |                   |               |
| <sup>[C]</sup> Density of melt              | 1440    | kg/m <sup>3</sup> | -             |
| <sup>[C]</sup> Thermal conductivity of melt | 0.153   | W/(m K)           | -             |
| <sup>[C]</sup> Spec. heat capacity of melt  | 1740    | J/(kg K)          | -             |
| <sup>[C]</sup> Eff. thermal diffusivity     | 6.12E-8 | m <sup>2</sup> /s | -             |

[C]: CAMPUS

| Mechanical properties                                | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                                      |       |                   |               |
| <sup>[C]</sup> Tensile Modulus                       | 11000 | MPa               | ISO 527       |
| <sup>[C]</sup> Stress at break                       | 140   | MPa               | ISO 527       |
| <sup>[C]</sup> Strain at break                       | 2.5   | %                 | ISO 527       |
| <sup>[C]</sup> Charpy impact strength, +23°C         | 50    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <sup>[C]</sup> Charpy impact strength, -30°C         | 50    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <sup>[C]</sup> Charpy notched impact strength, +23°C | 10    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| <sup>[C]</sup> Charpy notched impact strength, -30°C | 10    | kJ/m <sup>2</sup> | ISO 179/1eA   |

[C]: CAMPUS

| Thermal properties   | Value | Unit  | Test Standard   |
|--|-------|-------|-----------------|
| <b>ISO Data</b>  |       |       |                 |
| <sup>[C]</sup> Melting temperature, 10°C/min               | 225   | °C    | ISO 11357-1/-3  |
| <sup>[C]</sup> Temp. of deflection under load, 1.80 MPa    | 210   | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Temp. of deflection under load, 0.45 MPa    | 220   | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Coeff. of linear therm. expansion, parallel | 35    | E-6/K | ISO 11359-1/-2  |
| <sup>[C]</sup> Coeff. of linear therm. expansion, normal   | 70    | E-6/K | ISO 11359-1/-2  |
| <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. at thickness h               | V-0   | class | IEC 60695-11-10 |
| Thickness tested   | 3.0   | mm    | -               |
| Yellow Card available                                      | yes   | -     | -               |

[C]: CAMPUS

| Electrical properties                       | Value | Unit  | Test Standard |
|---|-------|-------|---------------|
| <b>ISO Data</b>                             |       |       |               |
| <sup>[C]</sup> Relative permittivity, 100Hz | 3.4   | -     | IEC 62631-2-1 |
| <sup>[C]</sup> Relative permittivity, 1MHz  | 3.4   | -     | IEC 62631-2-1 |
| <sup>[C]</sup> Dissipation factor, 100Hz    | 10    | E-4   | IEC 62631-2-1 |
| <sup>[C]</sup> Dissipation factor, 1MHz     | 150   | E-4   | IEC 62631-2-1 |
| <sup>[C]</sup> Volume resistivity           | >1E13 | Ohm*m | IEC 62631-3-1 |
| <sup>[C]</sup> Comparative tracking index   | 275   | -     | IEC 60112     |

[C]: CAMPUS

| Other properties                   | Value | Unit              | Test Standard  |
|------------------------------------|-------|-------------------|----------------|
| <sup>[C]</sup> Water absorption    | 0.6   | %                 | Sim. to ISO 62 |
| <sup>[C]</sup> Humidity absorption | 0.2   | %                 | Sim. to ISO 62 |
| <sup>[C]</sup> Density             | 1670  | kg/m <sup>3</sup> | ISO 1183       |

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

Flame retardant

**Delivery form**

Pellets

**Regional Availability**

Europe

**Additives**

Release agent

**Other text information****Injection molding**[Injection Molding Recommendations](#)[Steel recommendations for molds screws and barrels](#)[Supporting document for Stanyl quality processing](#)