

Product Texts

30% Glass Reinforced, Heat Stabilized, Hydrolysis resistant

ISO 1043 PA66-GF30

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|---|-------------------|------------------------|----------------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 12.7 / * | cm ³ /10min | ISO 1133 |
| Temperature | 275 / * | °C | - |
| Load | 5 / * | kg | - |
| ^[C] Thermal conductivity of melt | 0.28 | W/(m K) | - |
| ^[C] Spec. heat capacity of melt | 2170 | J/(kg K) | - |

[C]: CAMPUS

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|---------------------|-------------------|----------------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 10000 / 6500 | MPa | ISO 527 |
| ^[C] Stress at break | 205 / 125 | MPa | ISO 527 |
| ^[C] Strain at break | 3.6 / 6 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 81 / 88 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | 65 / 68 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 13 / 16 | kJ/m ² | ISO 179/1eA |
| ^[C] Charpy notched impact strength, -30°C | 10 / 10 | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | dry / cond | Unit | Test Standard |
|--|-------------------|-------------|----------------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 260 / * | °C | ISO 11357-1/-3 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 250 / * | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 260 / * | °C | ISO 75-1/-2 |
| ^[C] Coeff. of linear therm. expansion, parallel | 20 / * | E-6/K | ISO 11359-1/-2 |
| ^[C] Coeff. of linear therm. expansion, normal | 70 / * | E-6/K | ISO 11359-1/-2 |
| ^[C] Burning Behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 1.5 / * | mm | - |
| Yellow Card available | yes / * | - | - |
| ^[C] Burning Behav. at thickness h | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 3.0 / * | mm | - |
| Yellow Card available | yes / * | - | - |
| ^[C] Burning rate, FMVSS, Thickness 1 mm | 50 | mm/min | ISO 3795 (FMVSS 302) |

[C]: CAMPUS

| Electrical properties | dry / cond | Unit | Test Standard |
|---|--------------------|-------------|----------------------|
| ISO Data | | | |
| ^[C] Relative permittivity, 100Hz | 3.8 / 10 | - | IEC 62631-2-1 |
| ^[C] Relative permittivity, 1MHz | 3.5 / 4.1 | - | IEC 62631-2-1 |
| ^[C] Dissipation factor, 100Hz | 90 / 2800 | E-4 | IEC 62631-2-1 |
| ^[C] Dissipation factor, 1MHz | 160 / 800 | E-4 | IEC 62631-2-1 |
| ^[C] Volume resistivity | 1E12 / 1E10 | Ohm*m | IEC 62631-3-1 |
| ^[C] Surface resistivity | * / 1E13 | Ohm | IEC 62631-3-2 |
| ^[C] Electric strength | 30 / 25 | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | 500 / 500 | - | IEC 60112 |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|------------------------------------|-------------------|-------------------|----------------------|
| ^[C] Water absorption | 6 / * | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 1.6 / * | % | Sim. to ISO 62 |
| ^[C] Density | 1360 / - | kg/m ³ | ISO 1183 |

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets

Chemical Resistance

Hydrolytically Stable

Additives

Release agent

Regional Availability

North America, Europe, Asia Pacific

Other text information**Injection molding**[Injection Molding Recommendations](#)[Steel recommendations for molds screws and barrels](#)[Trouble shooting guideline for injection molding](#)