

Product Texts

Crastin® FR685NH1 NC010 is a 30% Glass Reinforced, Flame Retardant, Non-Halogenated, Polybutylene Terephthalate

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|-------|------|-----------------|
| ISO Data | | | |
| ^[C] Molding shrinkage, parallel | 0.5 | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 1.3 | % | ISO 294-4, 2577 |
| ^[C] Ejection temperature | 170 | °C | - |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 11100 | MPa | ISO 527 |
| ^[C] Stress at break | 100 | MPa | ISO 527 |
| ^[C] Strain at break | 2.3 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 39 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | 46 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 7 | kJ/m ² | ISO 179/1eA |
| ^[C] Charpy notched impact strength, -30°C | 7 | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|-----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 223 | °C | ISO 11357-1/-3 |
| ^[C] Glass transition temperature, 10°C/min | 55 | °C | ISO 11357-1/-2 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 205 | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 222 | °C | ISO 75-1/-2 |
| ^[C] Burning Behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 0.4 | mm | - |
| Yellow Card available | yes | - | - |
| ^[C] Oxygen index | 43 | % | ISO 4589-1/-2 |

[C]: CAMPUS

| Electrical properties | Value | Unit | Test Standard |
|---|-------|-------|---------------|
| ISO Data | | | |
| ^[C] Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| ^[C] Electric strength | 36 | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | 600 | - | IEC 60112 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------------------------|-------|-------------------|----------------|
| ^[C] Water absorption | 0.25 | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 0.1 | % | Sim. to ISO 62 |
| ^[C] Density | 1570 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Natural Color

Special Characteristics

Flame retardant, Halogen-free

Regional Availability

North America, Europe, Asia Pacific, South and Central America