

Product Texts

Thermx® CG923 is a 20% glass fiber reinforced and flame retardant polycyclohexylenedimethylene terephthalate for injection molding.

Flammability @1.6mm nom. V-0
thickn.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--------------------------------------------|-------|------|-----------------|
| ISO Data | | | |
| ^[C] Molding shrinkage, parallel | 0.4 | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 0.9 | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|------------------------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 8000 | MPa | ISO 527 |
| ^[C] Stress at break | 100 | MPa | ISO 527 |
| ^[C] Strain at break | 1.8 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 30 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 5 | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|------------------------------------------------------------|-------|-------|-----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 285 | °C | ISO 11357-1/-3 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 235 | °C | ISO 75-1/-2 |
| ^[C] Coeff. of linear therm. expansion, parallel | 15 | E-6/K | ISO 11359-1/-2 |
| ^[C] Coeff. of linear therm. expansion, normal | 110 | E-6/K | ISO 11359-1/-2 |
| ^[C] Burning Behav. at 1.5 mm nom. thickn. | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|---------------|
| ^[C] Density | 1570 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Regional Availability

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