

Product Texts

Flame Retardant, High Flow

ISO 1043 (PC+ABS) FR(40)...

[XANTAR Polycarbonate & Blends, your global partner for innovative added value](#)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|-------------|------------------------|-----------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 35 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | - |
| Load | 5 | kg | - |
| ^[C] Molding shrinkage, parallel | 0.5 | % | ISO 294-4, 2577 |
| ^[C] Density of melt | 1000 | kg/m ³ | - |
| ^[C] Thermal conductivity of melt | 0.23 | W/(m K) | - |
| ^[C] Spec. heat capacity of melt | 2220 | J/(kg K) | - |
| ^[C] Eff. thermal diffusivity | 1E-7 | m ² /s | - |
| ^[C] Ejection temperature | 95 | °C | - |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|---------------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 2850 | MPa | ISO 527 |
| ^[C] Yield stress | 60 | MPa | ISO 527 |
| ^[C] Yield strain | 4 | % | ISO 527 |
| ^[C] Nominal strain at break | >50 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | N | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | N | kJ/m ² | ISO 179/1eU |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|---|------------|-------|-----------------|
| ISO Data | | | |
| ^[C] Temp. of deflection under load, 1.80 MPa | 90 | °C | ISO 75-1/-2 |
| ^[C] Vicat softening temperature, B | 104 | °C | ISO 306 |
| ^[C] Burning Behav. at 1.5 mm nom. thickn. | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Yellow Card available | yes | - | - |
| ^[C] Burning Behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 3.0 | mm | - |
| Yellow Card available | yes | - | - |
| ^[C] Burning Behav. 5V at thickness h | 5VB | class | IEC 60695-11-20 |
| Thickness tested | 2.0 | mm | - |
| Yellow Card available | yes | - | - |
| ^[C] Oxygen index | 32 | % | ISO 4589-1/-2 |

[C]: CAMPUS

| Electrical properties | Value | Unit | Test Standard |
|--|-----------------|-------|---------------|
| ISO Data | | | |
| ^[C] Relative permittivity, 1MHz | 3 | - | IEC 62631-2-1 |
| ^[C] Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| ^[C] Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |
| ^[C] Comparative tracking index | 575 | - | IEC 60112 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------------------------|-------------|-------------------|----------------|
| ^[C] Water absorption | 0.6 | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 0.2 | % | Sim. to ISO 62 |
| ^[C] Density | 1170 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

XANTAR™ C CF 107

(PC+ABS) FR(40)...

Mitsubishi Engineering-Plastics Corporation

| Test specimen production | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| ^[C] Injection Molding, melt temperature | 270 | °C | ISO 294 |
| Injection Molding, mold temperature | 70 | °C | ISO 294 |

[C]: CAMPUS

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 100 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Processing humidity | ≤0.03 | % | - |
| Melt temperature | 240 - 270 | °C | - |
| Mold temperature | 50 - 80 | °C | - |
| Zone 1 | 230 - 250 | °C | - |
| Zone 2 | 235 - 255 | °C | - |
| Zone 3 | 240 - 260 | °C | - |
| Nozzle temperature | 230 - 250 | °C | - |

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](#)