## SAPHIROS C 7846

PC MAIP SRL

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melt flow index, MFI | **10** | g/10min | ISO 1133 |
| Temperature | **300** | °C | - |
| Load | **1.2** | kg | - |
| Molding shrinkage, parallel | **0.7** | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | **0.7** | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Stress at break | **65** | MPa | ISO 527 |
| Strain at break | **115** | % | ISO 527 |
| Flexural modulus, 23°C | **2400** | MPa | ISO 178 |
| Flexural strength | **95** | MPa | ISO 178 |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Glass transition temperature, 10°C/min | **141** | °C | ISO 11357-1/-2 |
| Temp. of deflection under load, 1.80 MPa | **120** | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | **130** | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | **V-0** | class | IEC 60695-11-10 |
| Thickness tested | **1.5** | mm | - |
| Burning rate, FMVSS, Thickness 1 mm | **100** | mm/min | ISO 3795 (FMVSS 302) |
| Glow Wire Flammability Index (GWFI) | **960** | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | **1.5** | mm | - |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1200** | kg/m³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **120** | °C | - |
| Pre-drying - Time | **4 - 8** | h | - |
| Processing humidity | **≤0.02** | % | - |
| Melt temperature | **280 - 320** | °C | - |
| Mold temperature | **70 - 90** | °C | - |

### Characteristics

**Processing**
Injection Molding

**Features**
Metallic effect

**Special Characteristics**
Flame retardant

**Regional Availability**
Europe