

Product Texts

Very Low Viscosity, Flame Retardant, Molding Release, UV Stabilized

ISO 1043 PC FR

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| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---------------|------------------------|-----------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 16 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| ^[C] Molding shrinkage, parallel | 0.6 | % | ISO 294-4, 2577 |
| ^[C] Density of melt | 1010 | kg/m ³ | - |
| ^[C] Thermal conductivity of melt | 0.24 | W/(m K) | - |
| ^[C] Spec. heat capacity of melt | 1710 | J/(kg K) | - |
| ^[C] Eff. thermal diffusivity | 1.4E-7 | m ² /s | - |
| ^[C] Ejection temperature | 131 | °C | - |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|---------------|------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 2300 | MPa | ISO 527 |
| ^[C] Yield stress | 60 | MPa | ISO 527 |
| ^[C] Yield strain | 6 | % | ISO 527 |
| ^[C] Nominal strain at break | >50 | % | ISO 527 |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|--|------------|-------|-----------------|
| ISO Data | | | |
| ^[C] Temp. of deflection under load, 1.80 MPa | 130 | °C | ISO 75-1/-2 |
| ^[C] Vicat softening temperature, B | 145 | °C | ISO 306 |
| ^[C] Coeff. of linear therm. expansion, parallel | 65 | 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 | - |
| 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] Oxygen index | 35 | % | ISO 4589-1/-2 |

[C]: CAMPUS

| Electrical properties | Value | Unit | Test Standard |
|---|-----------------|-------|---------------|
| ISO Data | | | |
| ^[C] Relative permittivity, 100Hz | 3 | - | IEC 62631-2-1 |
| ^[C] Relative permittivity, 1MHz | 2.9 | - | IEC 62631-2-1 |
| ^[C] Dissipation factor, 100Hz | 6.6 | E-4 | IEC 62631-2-1 |
| ^[C] Dissipation factor, 1MHz | 92 | E-4 | IEC 62631-2-1 |
| ^[C] Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| ^[C] Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |
| ^[C] Electric strength | 29 | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | 225 | - | IEC 60112 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|---------------------------------|-------------|-------------------|----------------|
| ^[C] Water absorption | 0.35 | % | Sim. to ISO 62 |
| ^[C] Density | 1200 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

| Material specific properties | Value | Unit | Test Standard |
|---------------------------------|-------|--------------------|---------------------|
| ISO Data | | | |
| ^[C] Viscosity number | 50 | cm ³ /g | ISO 307, 1157, 1628 |

[C]: CAMPUS

| Test specimen production | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| ^[C] Injection Molding, melt temperature | 300 | °C | ISO 294 |
| Injection Molding, mold temperature | 90 | °C | ISO 294 |

[C]: CAMPUS

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Processing humidity | ≤0.03 | % | - |
| Melt temperature | 290 - 320 | °C | - |
| Mold temperature | 80 - 120 | °C | - |
| Zone 1 | 260 - 280 | °C | - |
| Zone 2 | 270 - 290 | °C | - |
| Zone 3 | 280 - 300 | °C | - |
| Nozzle temperature | 270 - 290 | °C | - |

Characteristics

Processing

Injection Molding, Blow Molding

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Flame retardant, Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

Europe

Other text information

Injection molding

[Injection Molding Recommendations](#)