

Product Texts

Extremely Low Viscosity, Molding Release, UV Stabilized

ISO 1043 PC

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| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|--------|------------------------|-----------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 29 | 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 | 144 | °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-2 | class | IEC 60695-11-10 |
| ^[C] Oxygen index | 26 | % | 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

| 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

Special Characteristics

U.V. stabilized or stable to weather, Transparent

Delivery form

Pellets

Regional Availability

Europe

Additives

Release agent

Other text information

Injection molding

[Injection Molding Recommendations](#)