# ULTEM™ Resin 1100 - Europe

PEI — Saudi Basic Industries Corporation (SABIC)

**Product Texts**

Standard flow Polyetherimide (Tg 217C). ECO Conforming, UL94 V0, V2 and 5VA listing.

UL Yellow Card Link E121562-101048254

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melt volume-flow rate, MVR | **12** | cm³/10min | ISO 1133 |
| Temperature | **340** | °C | - |
| Load | **5** | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **3500** | MPa | ISO 527 |
| Yield stress | **110** | MPa | ISO 527 |
| Yield strain | **6** | % | ISO 527 |
| Stress at break | **85** | MPa | ISO 527 |
| Strain at break | **10** | % | ISO 527 |
| Flexural modulus | **3300** | MPa | ISO 178 |
| Izod notched impact strength, +23°C, 4mm | **4** | kJ/m² | ISO 180/1A |
| Izod notched impact strength, -30°C, 4mm | **4** | kJ/m² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Vicat softening temperature, A | **210** | °C | ISO 306 |
| Vicat softening temperature, B | **200** | °C | ISO 306 |
| Vicat softening temperature, 120°C/h 50N | **205** | °C | ISO 306 |
| Burning behav. at thickness h | **V-2** | class | IEC 60695-11-10 |
| Thickness tested | **0.4** | mm | - |
| Burning behav. 5V at thickness h | **5VA** | class | IEC 60695-11-20 |
| Thickness tested | **3.0** | mm | - |
| Thermal Conductivity | **0.26** | W/(m K) | DIN 52616 |
| Glow Wire Flammability Index (GWFI) | **960** | °C | IEC 60695-2-12 |
| GWFI - thickness tested (3) | **3.2** | mm | - |

| Electrical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Volume resistivity | **1E13** | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | **>1E15** | Ohm | IEC 62631-3-2 |
| Comparative tracking index | **175** | - | IEC 60112 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Water absorption | **1.2** | % | Sim. to ISO 62 |
| Humidity absorption | **0.65** | % | Sim. to ISO 62 |
| Density | **1370** | kg/m³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **150** | °C | - |
| Pre-drying - Time | **4 - 6** | h | - |
| Processing humidity | **≤0.02** | % | - |
| Melt temperature | **360 - 400** | °C | - |
| Mold temperature | **140 - 180** | °C | - |
| Feed temperature | **80 - 100** | °C | - |
| Zone 1 | **340 - 380** | °C | - |
| Zone 2 | **360 - 400** | °C | - |
| Zone 3 | **370 - 410** | °C | - |

## Characteristics

**Processing**
Injection Molding

**Regional Availability**
Europe