

**Product Texts**

10% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C) with internal mold release. ECO Conforming, UL94 V0 and 5VA listing.

UL Yellow Card Link [E121562-100732301](https://www.ulprospector.com/121562-100732301)

| <b>Processing/Physical Characteristics</b> | <b>Value</b> | <b>Unit</b>            | <b>Test Standard</b> |
|--|--------------|------------------------|----------------------|
| <b>ISO Data</b>                            |              |                        |                      |
| Melt volume-flow rate, MVR                 | 13           | cm <sup>3</sup> /10min | ISO 1133             |
| Temperature                                | 360          | °C                     | -                    |
| Load                                       | 5            | kg                     | -                    |

| <b>Mechanical properties</b>     | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|----------------------------------|--------------|-------------------|----------------------|
| <b>ISO Data</b>                  |              |                   |                      |
| Tensile Modulus                  | 4500         | MPa               | ISO 527              |
| Stress at break                  | 115          | MPa               | ISO 527              |
| Strain at break                  | 4            | %                 | ISO 527              |
| Flexural modulus                 | 4500         | MPa               | ISO 178              |
| Charpy impact strength, +23°C    | 35           | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy impact strength, -30°C    | 35           | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Izod impact strength, +23°C, 4mm | 30           | kJ/m <sup>2</sup> | ISO 180/1U           |
| Izod impact strength, -30°C, 4mm | 30           | kJ/m <sup>2</sup> | ISO 180/1U           |
| Ball indentation hardness        | 140          | MPa               | ISO 2039-1           |

| <b>Thermal properties</b>                | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|--------------|-------------|----------------------|
| <b>ISO Data</b>                          |              |             |                      |
| Vicat softening temperature, A           | 223          | °C          | ISO 306              |
| Vicat softening temperature, B           | 212          | °C          | ISO 306              |
| Vicat softening temperature, 120°C/h 50N | 217          | °C          | ISO 306              |
| Burning behav. at thickness h            | V-0          | class       | IEC 60695-11-10      |
| Thickness tested                         | 0.4          | mm          | -                    |
| Burning behav. 5V at thickness h         | 5VA          | class       | IEC 60695-11-20      |
| Thickness tested                         | 1.9          | mm          | -                    |
| Thermal Conductivity                     | 0.24         | W/(m K)     | DIN 52616            |
| Glow Wire Flammability Index (GWFI)      | 960          | °C          | IEC 60695-2-12       |
| GWFI - thickness tested (3)              | 3.2          | mm          | -                    |

| <b>Electrical properties</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|------------------------------|--------------|-------------|----------------------|
| <b>ISO Data</b>              |              |             |                      |
| Relative permittivity, 1MHz  | 2.9          | -           | IEC 62631-2-1        |
| Dissipation factor, 1MHz     | 25           | E-4         | IEC 62631-2-1        |
| Volume resistivity           | 1E13         | Ohm*m       | IEC 62631-3-1        |
| Surface resistivity          | >1E15        | Ohm         | IEC 62631-3-2        |
| Electric strength            | 34           | kV/mm       | IEC 60243-1          |
| Comparative tracking index   | 150          | -           | IEC 60112            |

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Water absorption        | 1            | %                 | Sim. to ISO 62       |
| Humidity absorption     | 0.6          | %                 | Sim. to ISO 62       |
| Density                 | 1340         | kg/m <sup>3</sup> | ISO 1183             |

| <b>Processing Recommendation Injection Molding</b> | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|--------------|-------------|----------------------|
| Pre-drying - Temperature                           | 150          | °C          | -                    |
| Pre-drying - Time                                  | 4 - 6        | h           | -                    |
| Processing humidity                                | ≤0.02        | %           | -                    |
| Melt temperature                                   | 370 - 410    | °C          | -                    |
| Mold temperature                                   | 140 - 180    | °C          | -                    |
| Feed temperature                                   | 80 - 120     | °C          | -                    |
| Zone 1   | 340 - 395    | °C          | -                    |

**ULTEM™ Resin 2110R - Europe**

PEI-GF10

Saudi Basic Industries Corporation (SABIC)

|        |                  |    |   |
|--------|------------------|----|---|
| Zone 2 | <b>350 - 405</b> | °C | - |
| Zone 3 | <b>360 - 415</b> | °C | - |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Europe

**Applications**

Automotive