

## SABIC Innovative Plastics ULTEM 1100 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-ULTEM-1100-PEI-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-1100-PEI-Asia-Pacific.php)

| Physical Properties         | Metric                                | English                               | Comments     |
|-----------------------------|---------------------------------------|---------------------------------------|--------------|
| Specific Gravity            | 1.36 g/cc                             | 1.36 g/cc                             | ASTM D792    |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm                 | 0.0050 - 0.0070 in/in                 | SABIC Method |
|                             | @Thickness 3.20 mm                    | @Thickness 0.126 in                   |              |
| Melt Flow                   | 8.8 g/10 min                          | 8.8 g/10 min                          | ASTM D1238   |
|                             | @Load 6.60 kg,<br>Temperature 337 Â°C | @Load 14.6 lb,<br>Temperature 639 Â°F |              |

| Mechanical Properties   | Metric             | English             | Comments                           |
|-------------------------|--------------------|---------------------|------------------------------------|
| Tensile Strength, Yield | 110 MPa            | 16000 psi           | Type I, 5 mm/min; ASTM D638        |
| Elongation at Break     | 70 %               | 70 %                | Type I, 5 mm/min; ASTM D638        |
| Tensile Modulus         | 3.72 GPa           | 540 ksi             | 5 mm/min; ASTM D638                |
| Flexural Yield Strength | 165 MPa            | 23900 psi           | 2.6 mm/min, 100 mm span; ASTM D790 |
| Flexural Modulus        | 3.72 GPa           | 540 ksi             | 2.6 mm/min, 100 mm span; ASTM D790 |
| Izod Impact, Notched    | 0.370 J/cm         | 0.693 ft-lb/in      | ASTM D256                          |
|                         | 15.48 J/cm         | 29.00 ft-lb/in      | ASTM D256                          |
|                         | @Thickness 3.20 mm | @Thickness 0.126 in |                                    |
| Gardner Impact          | 23.0 J             | 17.0 ft-lb          | ASTM D3029                         |

| Thermal Properties                             | Metric             | English             | Comments              |
|------------------------------------------------|--------------------|---------------------|-----------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 198 Â°C            | 388 Â°F             | unannealed; ASTM D648 |
|                                                | @Thickness 6.40 mm | @Thickness 0.252 in |                       |
| Glass Transition Temp, Tg                      | 217 Â°C            | 423 Â°F             |                       |
| UL RTI, Electrical                             | 170 Â°C            | 338 Â°F             | UL 746B               |
| UL RTI, Mechanical with Impact                 | 170 Â°C            | 338 Â°F             | UL 746B               |

| Thermal Properties<br>UL 94, Mechanical without Impact | Metric<br>V-2, V-0  | English<br>V-2, V-0  | Comments<br>UL 94 |
|--------------------------------------------------------|---------------------|----------------------|-------------------|
| Flammability, UL94                                     | V-2                 | V-2                  | UL 94             |
|                                                        | @Thickness 0.400 mm | @Thickness 0.0157 in |                   |
|                                                        | V-0                 | V-0                  | UL 94             |
|                                                        | @Thickness 0.750 mm | @Thickness 0.0295 in |                   |
|                                                        | 5VA                 | 5VA                  | UL 94             |
|                                                        | @Thickness 3.00 mm  | @Thickness 0.118 in  |                   |

| Electrical Properties                | Metric             | English            | Comments            |
|--------------------------------------|--------------------|--------------------|---------------------|
| Arc Resistance                       | 120 - 180 sec      | 120 - 180 sec      | Tungsten; ASTM D495 |
| Comparative Tracking Index           | 100 - 175 V        | 100 - 175 V        | UL 746A             |
| Hot Wire Ignition, HWI               | 60 - 120 sec       | 60 - 120 sec       | UL 746A             |
| High Amp Arc Ignition, HAI           | 15 - 30 arcs       | 15 - 30 arcs       | UL 746A             |
| High Voltage Arc-Tracking Rate, HVTR | 25.4 - 80.0 mm/min | 1.00 - 3.15 in/min | UL 746A             |

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