

## SABIC Innovative Plastics ULTEM AR9100 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

10% Glass fiber filled, standard flow Polyetherimide (Tg 217C). Meets FAR 25.853 and OSU 65/65 with low toxicity, smoke, and flame evolution. ECO Conforming.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-ULTEM-AR9100-PEI-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-AR9100-PEI-Asia-Pacific.php)

| Physical Properties         | Metric                                                | English                                               | Comments     |
|-----------------------------|-------------------------------------------------------|-------------------------------------------------------|--------------|
| Specific Gravity            | 1.32 g/cc                                             | 1.32 g/cc                                             | ASTM D792    |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0060 cm/cm<br>@Thickness 3.20 mm           | 0.0050 - 0.0060 in/in<br>@Thickness 0.126 in          | SABIC Method |
| Melt Flow                   | 6.9 g/10 min<br>@Load 6.60 kg,<br>Temperature 337 Â°C | 6.9 g/10 min<br>@Load 14.6 lb,<br>Temperature 639 Â°F | ASTM D1238   |

| Mechanical Properties     | Metric                          | English                              | Comments                           |
|---------------------------|---------------------------------|--------------------------------------|------------------------------------|
| Tensile Strength at Break | 119 MPa                         | 17300 psi                            | Type I, 5 mm/min; ASTM D638        |
| Tensile Strength, Yield   | 110 MPa                         | 16000 psi                            | Type I, 5 mm/min; ASTM D638        |
| Elongation at Break       | 8.0 %                           | 8.0 %                                | Type I, 5 mm/min; ASTM D638        |
| Tensile Modulus           | 4.34 GPa                        | 629 ksi                              | 5 mm/min; ASTM D638                |
| Flexural Yield Strength   | 193 MPa                         | 28000 psi                            | 2.6 mm/min, 100 mm span; ASTM D790 |
| Flexural Modulus          | 5.03 GPa                        | 730 ksi                              | 2.6 mm/min, 100 mm span; ASTM D790 |
| Izod Impact, Notched      | 0.690 J/cm                      | 1.29 ft-lb/in                        | ASTM D256                          |
|                           | 4.80 J/cm<br>@Thickness 3.20 mm | 8.99 ft-lb/in<br>@Thickness 0.126 in | ASTM D256                          |

| Thermal Properties                          | Metric                        | English                        | Comments              |
|---------------------------------------------|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 207 Â°C<br>@Thickness 6.40 mm | 405 Â°F<br>@Thickness 0.252 in | unannealed; ASTM D648 |
| Glass Transition Temp, Tg                   | 217 Â°C                       | 423 Â°F                        |                       |

| Descriptive Properties                     | Value                  | Comments   |
|--------------------------------------------|------------------------|------------|
| FAA Flammability, FAR 25.853 A/B           | NATURAL                | FAR 25.853 |
| NBS Smoke Density, Flaming, Dmax           | 5                      | ASTM E 662 |
| NBS Smoke Density, Flaming, Ds 1.5 min     | 0                      | ASTM E 662 |
| NBS Smoke Density, Flaming, Ds 4 min       | 5                      | ASTM E 662 |
| OSU total heat release (2 minute test)     | 5kW-min/m <sup>2</sup> | FAR 25.853 |
| OSU peak heat release rate (5 minute test) | 40kW/m <sup>2</sup>    | FAR 25.853 |
| Vertical Burn a (60s) passes at            | 0sec                   | FAR 25.853 |
| Vertical Burn b (12s) passes at            | 0sec                   | FAR 25.853 |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China