

## SABIC Innovative Plastics ULTEM Foam XP110 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

ULTEM foam is a polyetherimide based thermoplastic foam with excellent flame, smoke and toxicity performance. The material combines a high strength to weight ratio with low moisture absorption. The foam also possesses excellent dielectric properties. ULTEM foam is targeted at applications where structural fire performance, radar transparency, or extreme hot or cold environments are required. ULTEM foam is thermoformable and compatible with phenolic pre-pregs. Information on processing or secondary operations is available upon request.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-ULTEM-Foam-XP110-PEI.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-Foam-XP110-PEI.php)

| Physical Properties | Metric     | English                    | Comments   |
|---------------------|------------|----------------------------|------------|
| Density             | 0.110 g/cc | 0.00397 lb/in <sup>3</sup> | ASTM D1622 |
| Water Absorption    | 4.0 %      | 4.0 %                      | ASTM C272  |

| Mechanical Properties        | Metric                  | English                     | Comments                           |
|------------------------------|-------------------------|-----------------------------|------------------------------------|
| Tensile Strength             | 2.10 MPa                | 305 psi                     | ASTM D638                          |
| Tensile Modulus              | 0.0400 GPa              | 5.80 ksi                    | in plane; ASTM D638                |
| Compressive Strength         | 1.70 MPa                | 247 psi                     | perpendicular to plane; ASTM D1621 |
| Compressive Modulus          | 0.103 GPa               | 14.9 ksi                    | ASTM D1621                         |
| Shear Modulus                | 0.0240 GPa              | 3.48 ksi                    | ASTM C273                          |
| Shear Strength               | 1.40 MPa                | 203 psi                     | ASTM C273                          |
| Izod Impact, Unnotched (ISO) | 0.900 kJ/m <sup>2</sup> | 0.428 ft-lb/in <sup>2</sup> | ISO R179                           |

| Thermal Properties   | Metric       | English                                 | Comments  |
|----------------------|--------------|---|-----------|
| Thermal Conductivity | 0.0400 W/m-K | 0.278 BTU-in/hr-ft <sup>2</sup> -<br>°F | ASTM C518 |

| Descriptive Properties                     | Value                    | Comments   |
|--|--------------------------|------------|
| Insulation Radiant Panel                   | PASSES                   | FAR 25.856 |
| OSU total heat release (2 minute test)     | <55kW-min/m <sup>2</sup> | FAR 25.853 |
| OSU peak heat release rate (5 minute test) | <55kW/m <sup>2</sup>     | FAR 25.853 |
| Smoke Density                              | <10Ds                    | FAR 25.853 |

| Smoke Toxicity<br>Descriptive Properties | PASSES<br>Value | OEM BSS<br>Comments |
|--|-----------------|---------------------|
|  | PASSES          | OEM ABD             |
| Vertical Burn at 60 Seconds              | PASSES          | FAR 25.853          |

## Contact Songhan Plastic Technology Co.,Ltd.

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