

## SABIC Innovative Plastics ULTEM Foam XP080 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-XP080-PEI.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-Foam-XP080-PEI.php)

Physical Properties	Metric	English	Comments
Density	0.0800 g/cc	0.00289 lb/in <sup>3</sup>	ASTM D1622
Water Absorption	4.0 %	4.0 %	ASTM C272

Mechanical Properties	Metric	English	Comments
Tensile Strength	1.70 MPa	247 psi	ASTM D638
Tensile Modulus	0.0370 GPa	5.37 ksi	in plane; ASTM D638
Compressive Strength	1.20 MPa	174 psi	perpendicular to plane; ASTM D1621
Compressive Modulus	0.0710 GPa	10.3 ksi	ASTM D1621
Shear Modulus	0.0190 GPa	2.76 ksi	ASTM C273
Shear Strength	1.00 MPa	145 psi	ASTM C273
Izod Impact, Unnotched (ISO)	0.800 kJ/m <sup>2</sup>	0.381 ft-lb/in <sup>2</sup>	ISO R179

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0370 W/m-K	0.257 BTU-in/hr-ft <sup>2</sup> - °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 Descriptive Properties	PASSES Value	OEM BSS Comments
	PASSES	OEM ABD
Vertical Burn at 60 Seconds	PASSES	FAR 25.853

## Contact Songhan Plastic Technology Co.,Ltd.

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