

## SABIC Innovative Plastics ULTEM Foam XP060 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-XP060-PEI.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-Foam-XP060-PEI.php)

Physical Properties	Metric	English	Comments
Density	0.0600 g/cc	0.00217 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	0.700 MPa	102 psi	perpendicular to plane; ASTM D1621
Compressive Modulus	0.0460 GPa	6.67 ksi	ASTM D1621
Shear Modulus	0.0140 GPa	2.03 ksi	ASTM C273
Shear Strength	0.800 MPa	116 psi	ASTM C273
Izod Impact, Unnotched (ISO)	0.700 kJ/m <sup>2</sup>	0.333 ft-lb/in <sup>2</sup>	ISO R179

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0360 W/m-K	0.250 BTU-in/hr-ft <sup>2</sup> - °F	ASTM C518

Descriptive Properties	Value	Comments
Flame Spread at 1" Thick	<25	ASTM E 84
Insulation Radiant Panel	PASSES	FAR 25.856
OSU total heat release (2 minute test)	<65kW-min/m <sup>2</sup>	FAR 25.853
OSU peak heat release rate (5 minute test)	<65kW/m <sup>2</sup>	FAR 25.853

Smoke Density Descriptive Properties	<100s Value	FAR 25.853 Comments
Smoke Developed at 1" Thick	<50	ASTM E 84
Smoke Toxicity	PASSES	OEM BSS
	PASSES	OEM ABD
Vertical Burn at 60 Seconds	PASSES	FAR 25.853

## Contact Songhan Plastic Technology Co.,Ltd.

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