

# Ultem\* Foam XP080

## Product Datasheet

### Description

Ultem foam is a polyetherimide based thermoplastic foam with very good flame, smoke and toxicity performance. The material combines a high strength to weight ratio with low moisture absorption. The foam also possesses very good 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.

### Typical Property Values

Property	Test method	Unit	Value
<b>Physical</b>			
Density	ASTM D1622	kg/m <sup>3</sup> lb/ft <sup>3</sup>	80 5.0
Water Absorption, 24 hours	ASTM C272	%	2.0
<b>Mechanical</b>			
Compressive Strength perpendicular to plane	ASTM D1621	N/m <sup>2</sup> psi	1.1 160
Compressive Modulus perpendicular to plane	ASTM D1621	N/m <sup>2</sup> psi	71 10300
Tensile Strength in plane	ASTM D638	N/m <sup>2</sup> psi	1.7 240
Tensile Modulus in plane	ASTM D638	N/m <sup>2</sup> psi	29 4200
Shear Strength	ASTM C273	N/m <sup>2</sup> psi	1.07 155
Shear Modulus	ASTM C273	N/m <sup>2</sup> psi	37 5300
Impact Strength	ISO R179	kJ/m <sup>2</sup> ft lb/in <sup>2</sup>	1.5 0.70
<b>Thermal</b>			
Coefficient of Thermal Conductivity	ASTM C518	W/m K BTU in/ft <sup>2</sup> hr°F	0.037 0.26

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### Flammability

Fire Performance	Test Standard	Description	Value
<b>Aircraft</b>	FAR 25.853/ABD0031	Flammability	TBD
	FAR 25.853/ABD0031	Smoke Density	TBD
	BSS 7239/ABD0031	Toxicity	TBD
	FAR 25.853/ABD0031	Heat Release	TBD
<b>Rail</b>	DIN 5510/2	Flammability	TBD
	DIN 5510/2	Smoke Density	TBD
	DIN 5510/2	Dripping	TBD
	DIN 5510/2	Edge Flaming	TBD
<b>Rail</b>	NF F16-101		TBD
	NF F16-101		TBD

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