

Ultem* Foam XP060

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
Physical			
Density	ASTM D1622	kg/m ³ lb/ft ³	60 3.75
Water Absorption, 24 hours	ASTM C272	%	4.0
Mechanical			
Compressive Strength perpendicular to plane	ASTM D1621	N/m ² psi	0.7 100
Compressive Modulus perpendicular to plane	ASTM D1621	N/m ² psi	46 6700
Tensile Strength in plane	ASTM D638	N/m ² psi	1.8 260
Tensile Modulus in plane	ASTM D638	N/m ² psi	40 5700
Shear Strength	ASTM C273	N/m ² psi	0.8 120
Shear Modulus	ASTM C273	N/m ² psi	20 2800
Impact Strength	ISO R179	kJ/m ² ft lb/in ²	1.0 0.48
Thermal			
Coefficient of Thermal Conductivity	ASTM C518	W/m K BTU in/ft ² hr °F	0.036 0.25

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Flammability

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

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