



**Ultem Foam XP080**  
**Americas: COMMERCIAL**

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.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	Unit	Standard
<b>MECHANICAL</b>			
Compressive Strength perpendicular to plane	12	kgf/cm <sup>2</sup>	ASTM D 1621
Compressive Modulus perpendicular to plane	720	kgf/cm <sup>2</sup>	ASTM D 1621
Tensile Strength in plane	17	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Modulus in plane	370	kgf/cm <sup>2</sup>	ASTM D 638
Shear Strength	10	kgf/cm <sup>2</sup>	ASTM C 273
Shear Modulus	190	kgf/cm <sup>2</sup>	ASTM C 273
Impact Strength	0.8	cm-kgf/cm <sup>2</sup>	ISO R179
<b>THERMAL</b>			
Coefficient of Thermal Conductivity	0.037	W/m-K	ASTM C 518
<b>PHYSICAL</b>			
Density	0	g/cm <sup>3</sup>	ASTM D 1622
Water Absorption	4	%	ASTM C 272
<b>FLAME CHARACTERISTICS</b>			
OSU total heat release (2 minute test)	<55	kW-min/m <sup>2</sup>	FAR 25.853
OSU peak heat release rate (5 minute test)	<55	kW/m <sup>2</sup>	FAR 25.853
Smoke Density	<10	Ds	FAR 25.853
Smoke Toxicity	PASSES	-	OEM BSS
Smoke Toxicity	PASSES	-	OEM ABD
Insulation Radiant Panel	PASSES	-	FAR 25.856
Vertical Burn at 60 Seconds	PASSES	-	FAR 25.853

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

Source GMD, last updated:

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