



Ultem Foam XP110
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 ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Compressive Strength perpendicular to plane	17	kgf/cm ²	ASTM D 1621
Compressive Modulus perpendicular to plane	1050	kgf/cm ²	ASTM D 1621
Tensile Strength in plane	21	kgf/cm ²	ASTM D 638
Tensile Modulus in plane	400	kgf/cm ²	ASTM D 638
Shear Strength	14	kgf/cm ²	ASTM C 273
Shear Modulus	240	kgf/cm ²	ASTM C 273
Impact Strength	0.9	cm-kgf/cm ²	ISO R179
THERMAL			
Coefficient of Thermal Conductivity	0.04	W/m-K	ASTM C 518
PHYSICAL			
Density	0	g/cm ³	ASTM D 1622
Water Absorption	4	%	ASTM C 272
FLAME CHARACTERISTICS			
OSU total heat release (2 minute test)	<55	kW-min/m ²	FAR 25.853
OSU peak heat release rate (5 minute test)	<55	kW/m ²	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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