ULTEM™ foam XP080

Polyether Imide

SABIC Innovative Plastics

Message:

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.

General Information			
Features	Low hygroscopicity		
	Low smoke		
	High strength		
	Good electrical performance		
	Low temperature resistance		
	Heat resistance, high		
	Non-toxic		
	Flame retardancy		
Uses	Foam		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.0800	g/cm³	ASTM D1622
Water Absorption (Equilibrium)	4.0	%	ASTM D272
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	37.0	MPa	ASTM D638
Tensile Strength [2]	1.70	MPa	ASTM D638
Compressive Modulus [3]	71.0	MPa	ASTM D1621
Compressive Strength [4]	1.20	MPa	ASTM D1621
Shear Modulus	19.0	MPa	ASTM C273
Shear Strength	1.00	MPa	ASTM C273
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	0.80	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Thermal Conductivity	0.037	W/m/K	ASTM C518
Flammability	**Nominal Value**	**Unit**	**Test Method**
Insulation Radiant Panel	PASSES		FAR 25.853
OSU peak heat release rate [5]		kW/m²	FAR 25.853
OSU total heat release [6]		kW·min/m²	FAR 25.853
Smoke Toxicity			Internal method
OEM ABD	PASSES		Internal method
OEM BSS	PASSES		Internal method

Vertical combustion -60 seconds	PASSES		FAR 25.853
Smoke Density		Ds	FAR 25.853

NOTE	
1.	In plane
2.	In plane
3.	Perpendicular to plane
4.	Perpendicular to plane
5.	5 minute test
6.	2 minute test

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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