

PA2210 FR

Flame-Retardant

High-temperature material



A flame-retardant, halogen-free, off-white SLS with strong chemical resistance.

Benefits

- Flame retardant
- High-temperature resistant
- Superb long-term stability

Applications

- Aerospace industry testing (passes 12s burning test at wall thickness of 1.5 & 2mm)
- Electrical and electronic housings



Physical Properties

Colour	White
Type	Flame retardant SLS material

Mechanical Properties

		TEST/ISO
Flexural Modulus (MPa)	2,300	DIN EN ISO178
Tensile Strength, Z Direction (MPa)	41	Din EN ISO527
Tensile Strength, X, Y Direction (MPa)	45	
Tensile Modulus, Z Direction (MPa)	2,300	ATSM D638
Tensile Modulus, X, Y Direction (MPa)	2,500	
Elongation Break (%)	5	
Impact Strength (J/m)	3	ATSM D256
Density (g/cm ³)	1.06	N/A

Thermal Properties & Burning Behaviour

Melting Point (°C)	176	ISO 11357
Flammability for parts	1.1 mm	UL94 / HB
In devices & appliances	2.0 mm	UL94 / V-0
Flammability Properties (Aircraft)	1.5/2.0 mm 1.5/2.0 mm 0.06/0.08 inches	FAR25.853 b(4) ABD 0031 / AITM 2.0002 BSS 7230 F2
Smoke Generation (Aircraft)	1.5/2.0 (MPa)mm 1.5/2.0 (MPa)mm 0.06/0.08 inches	FAR 25.853 (d) ABD 0031 / AITM 2.0007 BSS 7238
Toxic Gas Generation (Aircraft)	1.5/2.0 mm 0.06/0.08 mm	ABD 0031 / AITM 3.005 BSS 7239

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