


[NEW PRODUCTS] Arisawa has developed halogen-free, antimony-free prepregs and honeycomb panels for aircraft, reducing environmental impact.

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ARISAWA

- Halogen and antimony compounds are widely used as flame retardants in prepregs for aircraft interior panels. But worldwide demands for reduction in use of environmentally hazardous substances have grown significantly, prompting tighter regulations on industrial use of those substances.
- In response to the ecological concerns, Arisawa has developed environment-friendly prepregs and honeycomb panels that do not contain halogen and antimony, leveraging its proprietary resin compounding technology. In addition, the new products have a high degree of fire resistance and mechanical properties, comparable to conventional ones.

■ Comparison of physical properties of panels for aircraft interiors

Honeycomb panel		unit	New	Current	Test procedure
Resin composition of prepreg		-	Phenol resin Halogen-free Antimony-free	Phenol resin Contains halogen Contains antimony	-
Peel strength		N•in/3in	75	70	MIL-STD-401B
Bending load		N	1020	940	
Fire resistance (HRR)	Peak	kW/m ²	30	30	FAR PART 25 (≦65)
	2min.Total	kW•min/m ²	30	30	

Honeycomb panels



CF cloth prepregs

•The new prepregs and honeycomb panels are now available for sales. Please contact us for details.

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