ColorFast® SFT5500

Product Description Proprietary polyphenylsulfone compound for Aerospace interior cabin applications. This PFAS-free material meets FAA regulations for 60 second vertical burn resistance, low smoke density & toxicity, and 55/55 OSU heat release. The material offers high flow and balanced mechanical properties to offer ease in thin-wall molding and weight reduction opportunities.

Material Status Commercial: Active

Availability Africa & Middle East, Asia Pacific, Europe, Latin America, North America

Features Excellent Colorability

Uses Aerospace Applications, Connectors, Consumer Applications, Engineering Parts, Industrial Applications, Industrial Parts, Military/Defense Applications, Outdoor Applications

Forms Pellets

Processing Method Injection Molding

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (380°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.80 to 1.2	%	
Across Flow	0.80 to 1.2	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [2]			ASTM D638
Yield	75.8	MPa	
Break	55.2	MPa	
Tensile Elongation [2]			ASTM D638
Yield	7.4	%	
Break	30 to 50	%	
Flexural Modulus [2]	3860	MPa	ASTM D790
Flexural Strength [2]	107	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	140	J/m	ASTM D256

Injection	Nominal Value	Unit
Drying Temperature	135 to 163	°C
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	24	hr
Suggested Max Moisture	< 0.010	%
Suggested Shot Size	50 to 75	%

Properties provided are only typical values and Americhem assumes no liability for the customer's use of the information provided. The customer assumes all responsibility for testing determining this products suitability in the customer's specific end application.

Revision Date: 4/29/2025

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Injection	Nominal Value	Unit
Rear Temperature	329 to 360	°C
Middle Temperature	329 to 360	°C
Front Temperature	329 to 360	°C
Nozzle Temperature	329 to 360	°C
Processing (Melt) Temp	343 to 371	°C
Mold Temperature	135 to 163	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.025 to 0.076	mm

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 51 mm/min

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