

ATH 70S

SOFT TYPE

Akusta Plast ATH 70S is a flexible flame retardant plastic sheet designed for applications that require excellent flexibility, durability and reliable fire protection.

- Releases steam at high temperature to cool and slow fire spread.
- Ideal for flexible interiors such as soft leather, cushions, mattresses, wall panels and carpets without sacrificing comfort.
- Also used in cable and electrical enclosure flame retardant solutions.



Application example: Flexible wall panels (formed in one piece)

PROPERTY	CONDITION	UNIT	VALUE	TEST METHOD
Specific gravity	23°C	—	1.679	KS M ISO 1183
Water absorption	50°C, 24 h	%	0.02	Per ASTM D570
Tensile strength	At break	MPa	2.4	KS M ISO 527-2
Elongation	At break	%	38	KS M ISO 527-2
Yield strength	Upper yield	MPa	0.9	KS M ISO 527-2
Yield elongation	Upper yield	%	1.1	KS M ISO 527-2
Tensile modulus	—	MPa	64	KS M ISO 527-2
Flexural strength	—	MPa	2.1	KS M ISO 178
Flexural modulus	—	MPa	70	KS M ISO 178
Izod impact strength	2.0 mm	kJ/m ²	13	KS M ISO 180 (Notched)
Izod impact strength	2.0 mm, -30°C 3 h	kJ/m ²	17	KS M ISO 180 (Notched)
Charpy impact strength	2.0 mm	kJ/m ²	22	KS M ISO 179-1 (Notched)
Charpy impact strength	2.0 mm, -30°C 3 h	kJ/m ²	7.2	KS M ISO 179-1 (Notched)
Hardness (Rockwell)	R scale	—	46	Per KS M ISO 2039-2
Vicat softening temperature	10 N load	°C	47	KS M ISO 306-A120
Surface resistivity	—	Ω/sq	1.2 × 10 ¹¹ ■	Per ASTM D257
Volume resistivity	—	Ω-cm	2.1 × 10 ¹³	Per ASTM D257
Dielectric constant	60 Hz	—	8.4	ASTM D150
Dissipation factor	60 Hz	—	0.0132	ASTM D150
Dielectric constant	100 kHz	—	6.4	ASTM D150
Dissipation factor	100 kHz	—	0.0048	ASTM D150
Dielectric constant	1 MHz	—	6.2	ASTM D150
Dissipation factor	1 MHz	—	0.0047	ASTM D150
Flame retardancy	2.2 mm, 3.2 mm	Rating	V-0	UL 94 : 2023

FIRE SAFETY • MATERIAL PERFORMANCE • PEACE OF MIND.

Akusta Plast combines proven flame retardant performance with strong mechanical and physical properties for a wide range of construction, industrial and electrical applications.

DETAILED TEST REPORTS AVAILABLE UPON REQUEST.

Please contact us for further information.