

ADHESIVE Compounds

Fluon+™ ADHESIVE Compounds are based on either ETFE or PFA polymers. These materials are functionalized such that they can chemically adhere to non-similar materials. This adhesive functionality grants the user an amount of design flexibility that would not be possible with a typical fluoropolymer. It also reduces cost, weight, and processing time by eliminating the need for tie layers in multi-layer constructions.

Adhesive ETFE is commonly used in automotive applications by co-extruding ETFE with a polyamide to produce a hose that cannot be delaminated even after thousands of hours of fluid exposure. Expansion of Fluon+ ADHESIVE grades continues through the addition of higher and lower processing temperature ranges allowing for more selections.

Common Products

Non-Conductive Products	Property	LH-8000	AH-5000	AH-600	AH-2000	AH-700	AH-800	EA-2000	PA-1030
	Melt Flow Rate (g/10 min)	4	26	25	25	12	25	16	27
	Specific Gravity	1.75	1.75	1.76	1.78	1.8	1.75	2.13	2.14
	Melt Temperature (°C)	190	225	230	240	260	255	300	310
Conductive Products	Property			AH-600C	AH-3000L CH-1	AH-700C	AH-810C		
	Melt Flow Rate (g/10 min)			4	3	3	4		
	Specific Gravity			1.76	1.77	1.76	1.75		
	Melt Temperature (°C)			230	240	255	255		

Typical Physical Properties

Property	Test Method	Units	Typical Value	
			AH-2000	AH-3000L CH-1
Melt Flow Rate	ASTM D-1238	g/10 minutes	25	3
Specific Gravity	ASTM D-792	-	1.78	1.77
Melt Temperature	DSC	°C	240	240
Surface Resistivity	AGC Internal	log Ω/square	-	2.1
Tensile Strength	ASTM D-638	MPa	49	29
Tensile Elongation	ASTM D-638	%	420	430

Typical Applications

- Multi-layer film and laminates
- Tape, film and battery applications
- Tubing and hose

Processing Techniques

- Extrusion
- Injection molding
- Compression molding
- Blow molding
- Transfer molding



Maintains Adhesion Even In Extended Exposure to Chemical Environments

Adhesive ETFE and Adhesive PFA each contain a unique functional component, which reacts with compatible groups to form a thermally stable chemical bond that maintains adhesion even in extended exposure to chemical environments (see Figure 1).

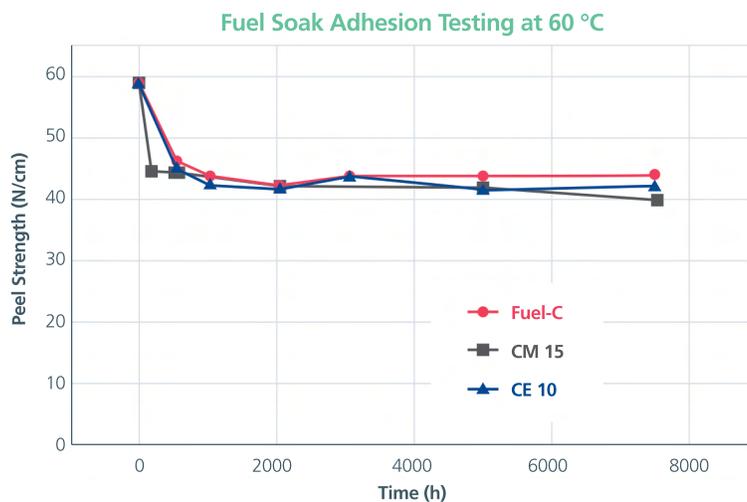
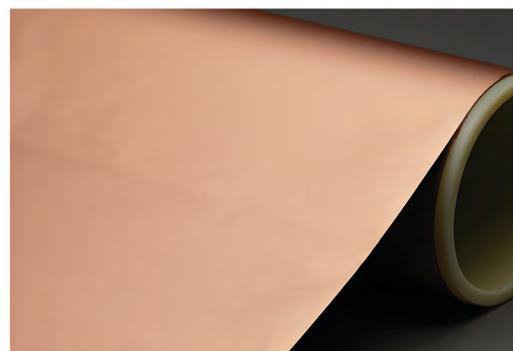
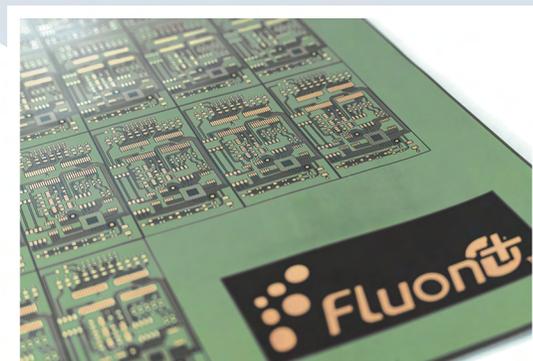


Figure 1. Adhesion strength between Adhesive ETFE and Polyamide in various fuels.

Contact your AGC Chemicals commercial representative for more information on specific grades or for technical datasheets.



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