

Conductive and Anti-static Compounds

Fluon+TM Conductive and Anti-static Compounds are made with fluoropolymer resins and carbon black, and are used for control of heat and static electricity.

From anti-static to highly conductive, these compounds are manufactured as ready-to-use products. Typical customization of products includes melt flow rate of final compound and conductivity level needed for the application. Flexible, cross-linkable and adhesive options are also available. Consistency and processability are the key factors in developing these compounds.

Common Products

Resin	ETFE	PFA	FEP	PVDF	ECTFE	PEEK
Conductive & Anti-static	Standard	Standard	Custom	Custom	Custom	Custom

Typical Physical Properties Measured

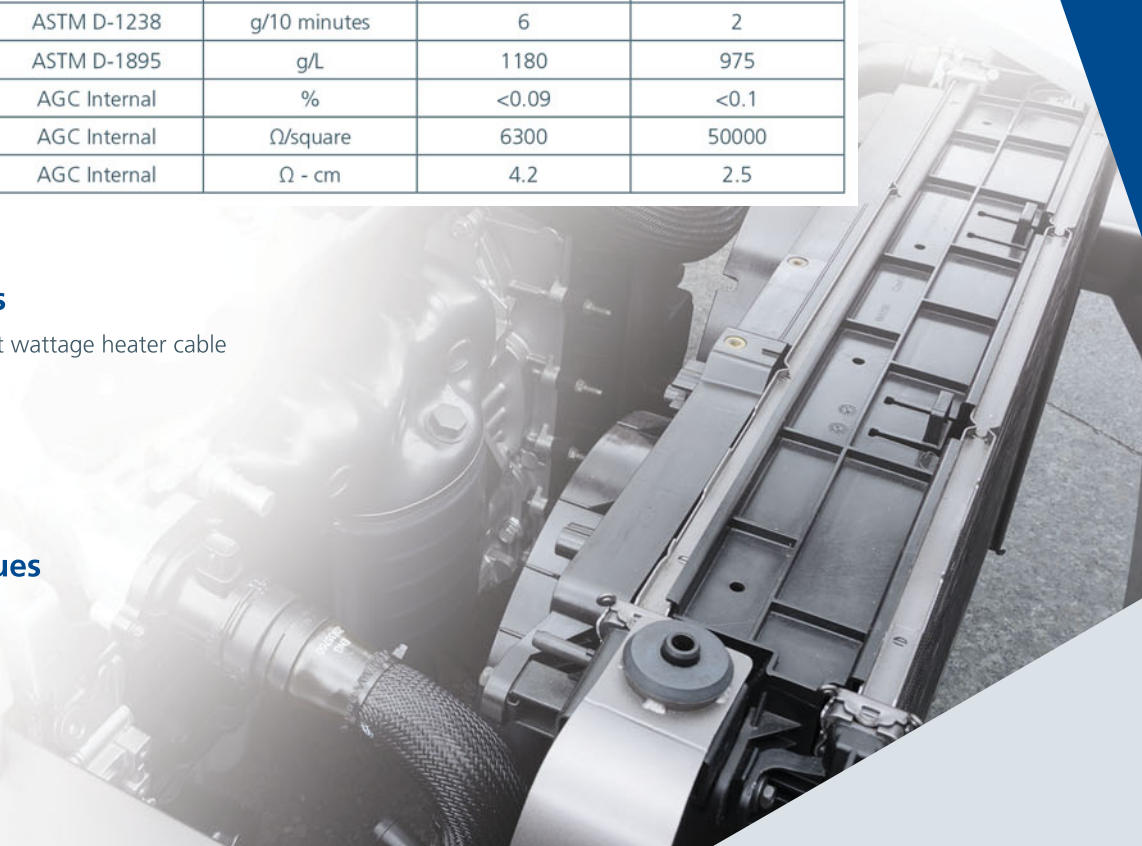
Property	Test Method	Units	Typical Value	
			FP-PC-16005	CB-8015X
Base Resin	-	-	PFA	ETFE
Melt Flow Rate	ASTM D-1238	g/10 minutes	6	2
Bulk Density	ASTM D-1895	g/L	1180	975
Moisture Content	AGC Internal	%	<0.09	<0.1
Surface Resistivity	AGC Internal	Ω /square	6300	50000
Volume Resistivity	AGC Internal	Ω - cm	4.2	2.5

Typical Applications

- Self-regulating or constant wattage heater cable
- Static dissipative fuel lines
- Hose and tubing
- Films and sheets
- Electrical components

Processing Techniques

- Extrusion
- Injection molding



Surface Resistivity as a Function of Carbon Content, ETFE MFR

The graph in Figure 1 shows conductivity as a function of carbon content and ETFE base resin. Product conductivity performance can be tailored to the application and the customer's process.

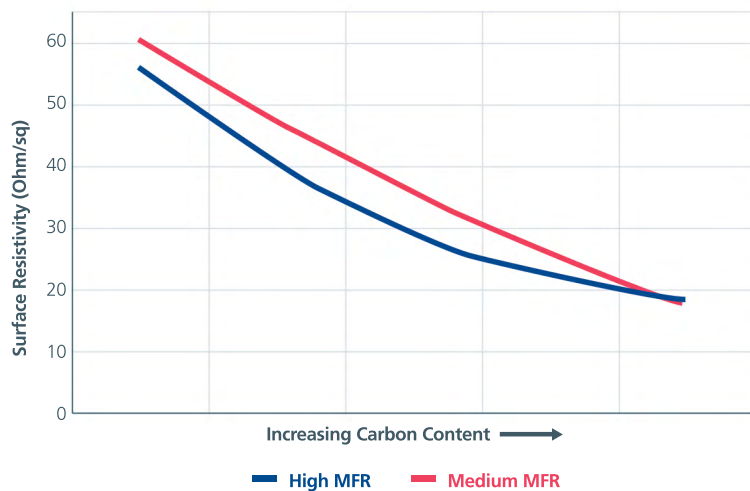
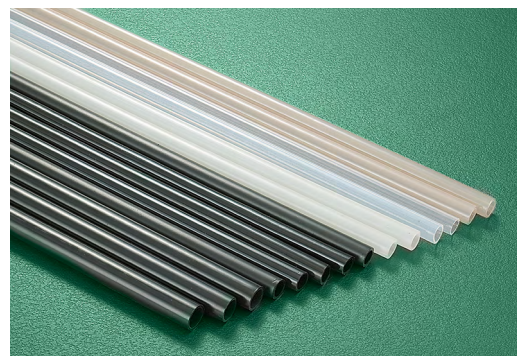


Figure 1. Compound conductivity as a function of carbon content and ETFE resin melt flow rate.

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



AGC Chemicals Americas, Inc.
55 E. Uwchlan Avenue, Suite 201
Exton, PA 19341
United States of America

Telephone: +1 610-423-4300
Toll Free (US only): 800-424-7833
Fax: +1 610-423-4305

www.agcchem.com

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