

## Conductive and Anti-static Compounds

**Fluon+<sup>TM</sup> 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	PFA	MFA	FEP	ETFE	PVDF	ECTFE
<b>Conductive &amp; Anti-static</b>	Standard	Custom	Custom	Standard	Custom	Custom

### Typical Physical Properties Measured

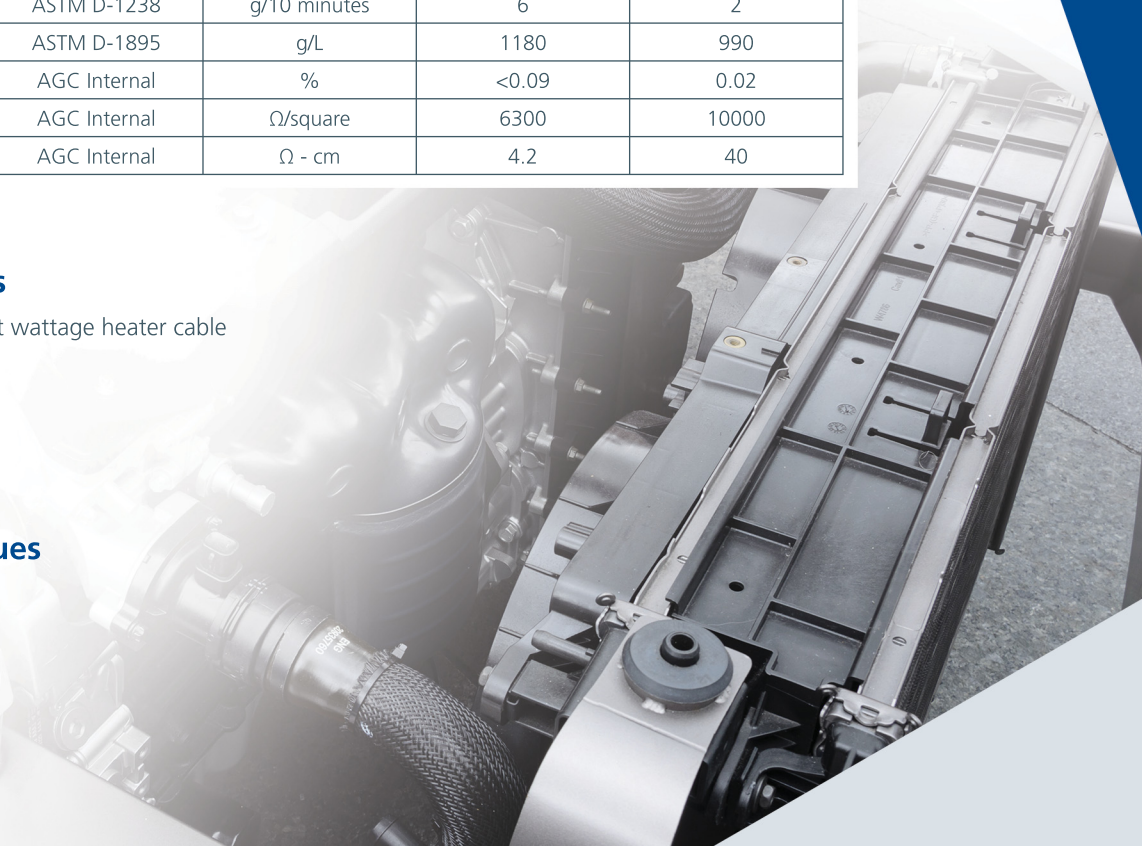
Property	Test Method	Units	Typical Value	
			FP-PC-16005	FP-EC-150
Base Resin	-	-	PFA	ETFE
Melt Flow Rate	ASTM D-1238	g/10 minutes	6	2
Bulk Density	ASTM D-1895	g/L	1180	990
Moisture Content	AGC Internal	%	<0.09	0.02
Surface Resistivity	AGC Internal	$\Omega$ /square	6300	10000
Volume Resistivity	AGC Internal	$\Omega$ - cm	4.2	40

### Typical Applications

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

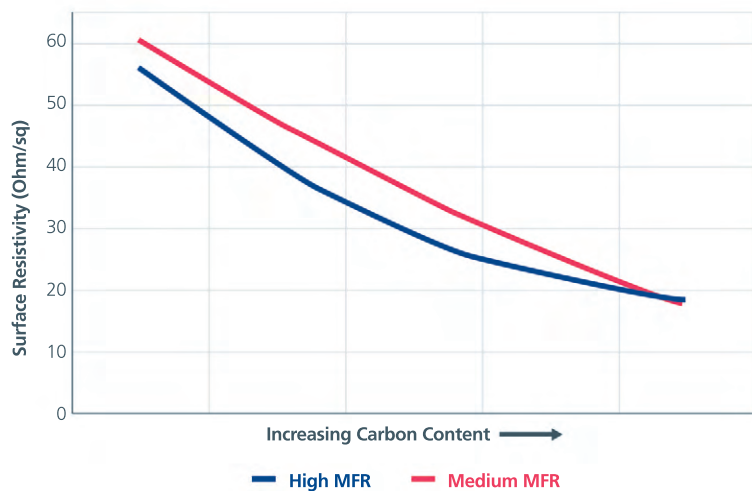
### Processing Techniques

- Extrusion
- Injection molding



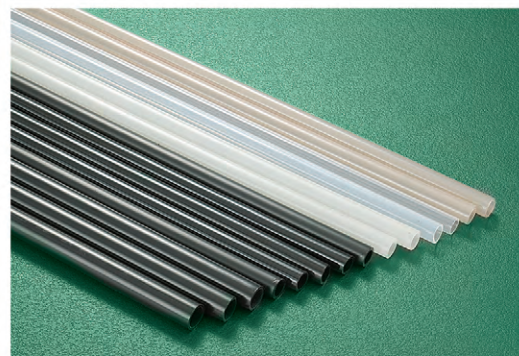
## Surface Resistivity as a Function of Carbon Content, ETFE MFR

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.



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