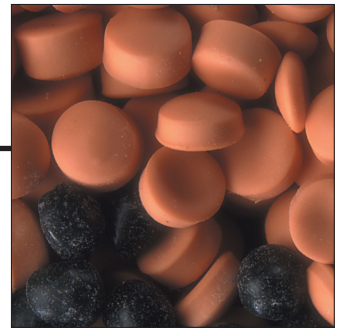


# *Leading Tomorrow's Technology With Superior Materials*



Compound Pellets

*Through the years the respective divisions of the enterprise, now known as General Cable, have earned an established reputation in advanced materials development, process technology and comprehensive analytical testing. With a commitment to advancing cable technology, our extensive research and development programs create materials with unmatched reliability, optimum service life and superior performance. General Cable, a quality company in every respect, is continually developing new technologies to meet the evolving needs of the industrial and energy markets.*

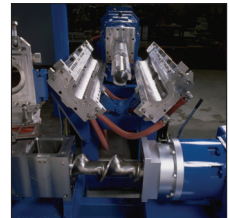
## **General Cable has extensive facilities for advanced, dedicated compounding research and development.**

### **Research and Development**

Supporting you, our customer, with innovative compounds begins with a leadership through technical excellence. A specialized team of cable industry experts with backgrounds in physics, chemistry, polymer science and mechanical engineering provides the company with over a century of combined knowledge. As a result, General Cable has proprietary formulations backed by a robust patent and patent-pending estate. Our capital investment in research and development makes leading tomorrow's technology with superior materials possible.

### **Advanced Compounding Capabilities**

From the time the premium raw materials enter the facility to the completion of the compound into pellets, these unique formulations are produced in a sealed, ultra-clean environment. Dedicated insulation and semi-conductive stainless steel HFOA filter systems and Buss mixer lines ensure the quality, reliability and consistency required to produce a pure compound. All processes are monitored, controlled and recorded via a computerized control center providing accurate, relevant and impartial material data.



Buss Ko-Kneader

### **Pilot Production**

General Cable is unique among its peers in that it has a fully dedicated pilot production facility. This equipment allows research and development, and manufacturing professionals, to work together to design, manufacture and test new polymers for power cable design.

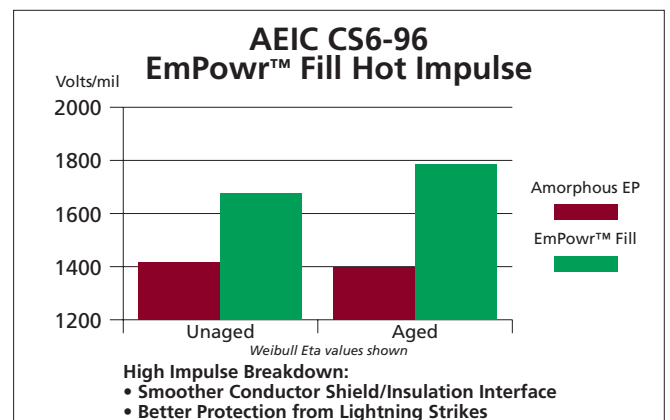
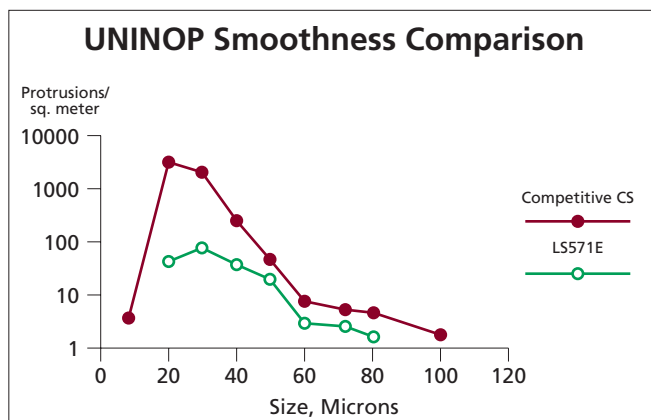
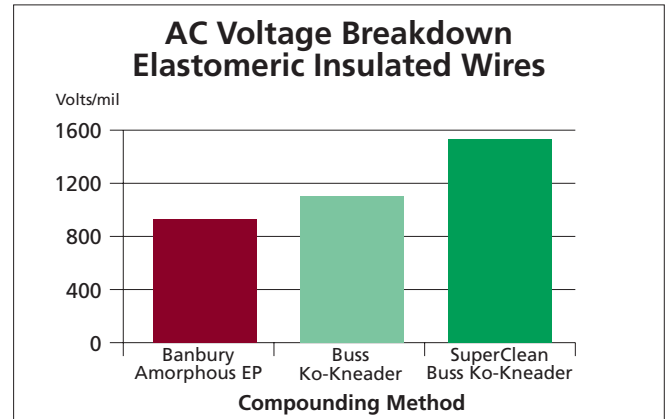
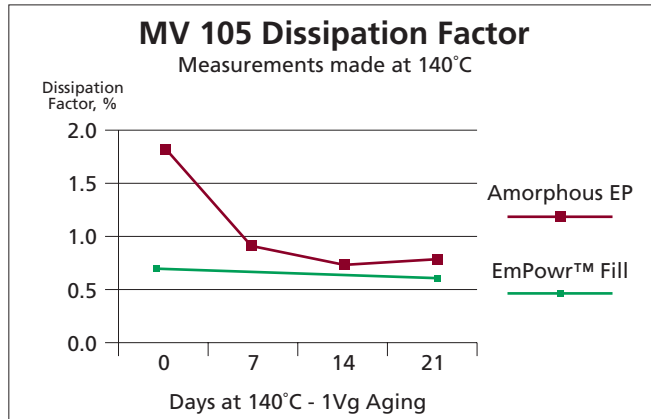
### **Test Laboratories**

General Cable's commitment to advanced cable technology extends itself into a state-of-the-art testing laboratory. Comprehensive testing of materials includes the latest laser technology shield smoothness assessment as well as rheological and thermal analysis. Advanced physical, mechanical and electrical testing allow for complete characterization and performance analysis. The results — the next generation of insulation and shielding materials that continue to set the standards for purity, surface smoothness, uniformity and performance.

# Leading Tomorrow's Technology With Superior Materials

## Challenging Today's Technology To Give You Tomorrow's Innovations

The purest polymer compounding means increased service life for you. Specializing in advanced polymer research, General Cable – an ISO 9001:2000 company – manufactures new compounds at quality levels that meet or exceed industry standards. Our commitment to innovation makes us a leader in the development of commercialized, high-performance, ultra-clean filled EPDM insulation and semi-conductive shield compounds for the low-, medium- and high-voltage cables servicing the industrial and energy markets.



Compound / Identification	Application	Voltage Range / Industry	Form / Packaging Options
<b>LS571E</b>	Peroxide cross-linkable, semi-conductive shield compound for use as conductor or bonded insulation shield with filled elastomeric or XLPE insulations. Formulation designed as a very smooth, clean free stripping shield which can be used with copper or aluminum. Compound has scorch resistance and low/stable volume resistivity.	5kV to 110kV Industrial & Energy	Black Pellets Std. Box, 1200 or 2000 lb IBC
<b>EI4728A</b>	Peroxide cross-linkable, kaolin-filled, lead stabilized EPDM insulation designed for medium-voltage applications meeting UL MV-105 and AEIC CS8 2000 specifications. Formulation designed with a low and stable dissipation factor of ~0.5% @ 90°C. Its high impulse strength is due to superior compounding, formulation and raw materials.	5kV to 110kV Industrial & Energy	Orange Pellets Std. Box, 1200 or 2000 lb IBC
<b>LS567A</b>	Peroxide cross-linkable, semi-conductive compound designed specifically for use as a strippable insulation shield over filled elastomeric and XLPE insulations. Designed to strip cleanly over a wide temperature range and meet AEIC, ICEA/NEMA, CSA and UL specifications. Strip force of 12 to 16 lbs/half inch at room temperature. Offers reduced viscosity for improved processability, lowest pick-off, smoothest interface.	5kV to 69kV Industrial & Energy	Black Pellets Std. Box, 1200 or 2000 lb IBC
<b>LS766B</b>	Peroxide cross-linkable, semi-conductive low strip force shield over filled elastomeric and XLPE insulations. Designed to strip cleanly over a broad temperature range (-40°C to +50°C). Meets AEIC, ICEA/NEMA, CSA and UL specifications. Strip force of 6 to 10 lbs/half inch at room temperature. Stable adhesion over time, lowest pick-off, smoothest interface.	5kV to 69kV Industrial & Energy	Black Pellets Std. Box, 1200 or 2000 lb IBC

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Materials covered under one or more of the following US and international patents and patents-pending: 5,556,697; 5,889,117; 6,013,202; 6,274,066; 6,291,772; 6,294,250; 6,294,256; 6,402,993; 6,491,849; 6,524,702B1; 6,592,791; 6,698,730; 03/0111253A1; 03/0075707A1; 04/0014858A1.

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