

Fluon+[™] Reinforced Compounds Optimized for Harsh Conditions

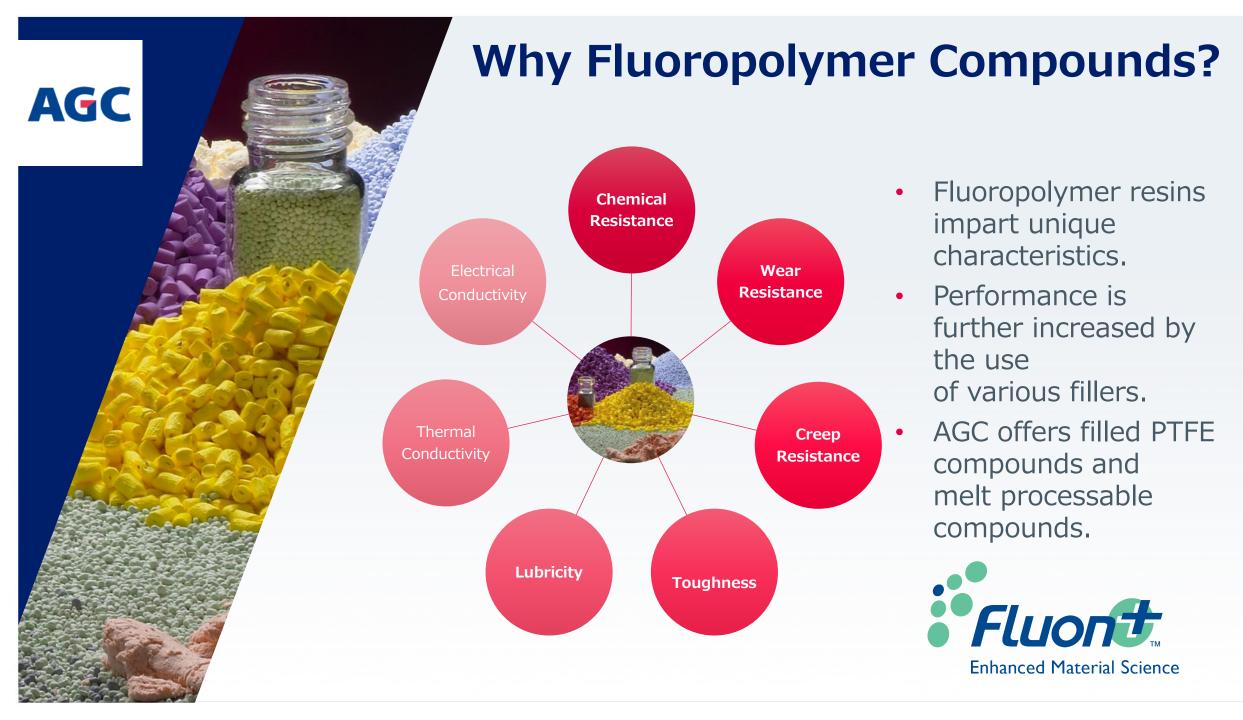
AGC Chemicals Americas, Inc.





Introduction to Melt Processable Compounds







Concentrates

- Color
- Foam
- Laser mark

Ready-to-Use

Modified

- Flexible compounds
- Adhesive compounds

Product Groups

• Modified PEEK and PPS

- Cross-link compounds
- Reinforced compounds
- Conductive compounds
- Lubricated compounds



Re-Inventing ETFE: Stress Crack Improvement

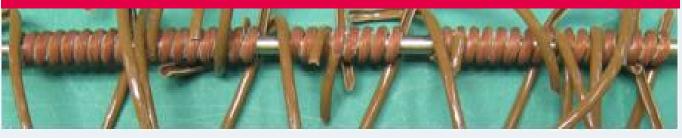
- Aimed at automotive standard LV112 (Class F)
- C-88AXM-HT is almost 20% less dense than FEP
- Performs well at temperatures up to 200 °C
- Full range of color concentrates available

	C-88AXM-HT ETFE	Standard ETFE
5% weight loss	395 °C	380 °C
10% weight loss	405 °C	390 °C
MIT (no. cycles)	26,500	16,400
Tensile Elongation (%)	550	496
Tensile Strength (Mpa)	52	52
Stress Crack T*	220 °C	185 °C

AGC

Reinventing ETFE: Stress Crack Improvement

Standard ETFE



Ultra Heat Resistant C-88AXM-HT ETFE

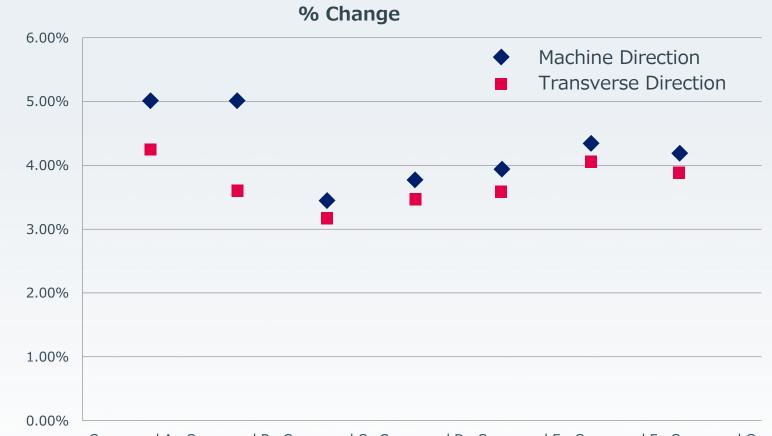


Procedure:

- Pre-aged 3 hours @ 225 °C before coiling
- 6 hours @ 225 °C after coiling



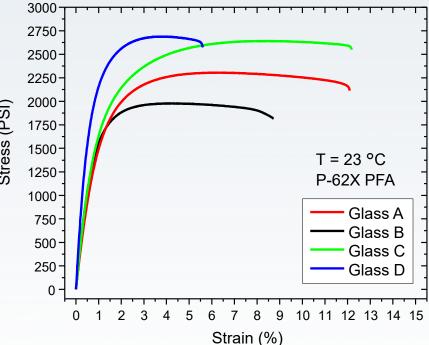
Shrink Reduction in PFA



Compound A Compound B Compound C Compound D Compound E Compound F Compound G



Glass-Reinforced Compounds



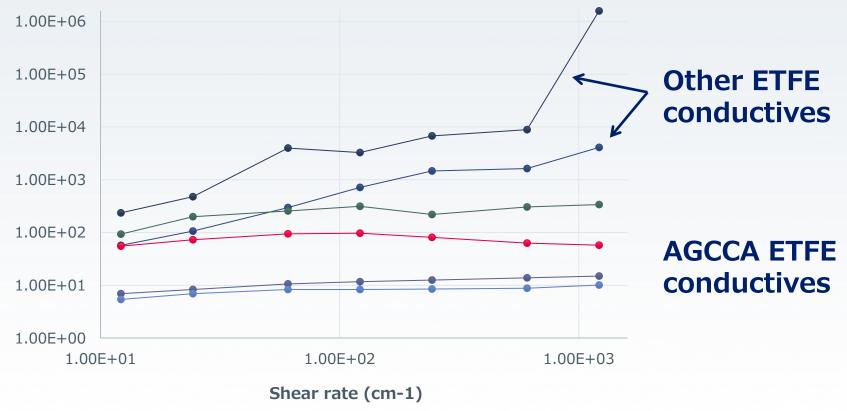
Not all glass is equal

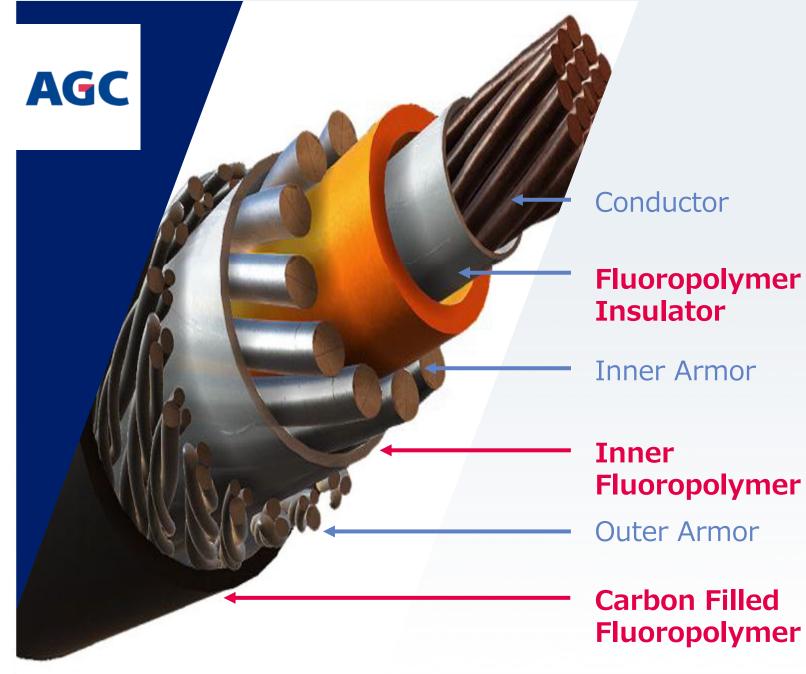
- Chopped vs. milled
- Treated vs. untreated fibers
- Type of fiber treatment
- Performance at elevated temperatures



Conductive & Anti-Static Compounds

- Extremely stable conductivity
- Resistant to shear process
- Minimized losses over time





Downhole Cable Applications

- 25,000 ft depth
- 15,000 psi
- Ultra smooth outer surface
- Abrasion resistance
- Torsion and tension
- Extreme temperature cycling •
- Bending fatigue

Inner **Fluoropolymer Jacket** Outer Armor

Carbon Filled Fluoropolymer Jacket



Contact Us for more Information

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Enhanced Material Science

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